MUNICIPAL GOVERNMENT AND ADMINISTRATION

BY THE SAME AUTHOR

THE GOVERNMENT OF EUROPEAN CITIES
THE GOVERNMENT OF AMERICAN CITIES

PRINCIPLES AND METHODS OF MUNICIPAL ADMINISTRATION

THE GOVERNMENT OF THE UNITED STATES

A BIBLIOGRAPHY OF MUNICIPAL GOVERNMENT

MUNICIPAL GOVERNMENT . AND ADMINISTRATION

BY

WILLIAM BENNETT MUNRO, Ph.D., LL.B.
JONATHAN TRUMBULL PROFESSION OF AMERICAN RISTORY
AND GOVERNMENT IN BARVARD UNIVERSALT.

VOLUME II ADMINISTRATION

Arm Hork
THE MACMILLAN COMPANY
1926

All rights recered

COPTRIGHT, 1923, By THE MACMILLAN COMPANY.

Set up and electrotyped. Published September, 1923. Reprinted August, 1923; September, 1925; May, 1926.

PRINTED IN THE UNITED STATES OF AMERICA BY THE BERWICK & SMITE CO.

CONTENTS

VOLUME II

	ADMINISTRATION	
T	THE ADMINISTRATIVE MECHANISM	
CHAPTER XXIII.	THE ORGANIZATION OF DEPARTMENTS	3–26
XXIV.	THE CITY'S WORKING FORCE 2	7–52
XXV.	Administrative Principles and Methods 5	3–69
CI	TY PLANNING AND PUBLIC WORKS	
XXVI.	THE PLANNING AND REPLANNING OF CITIES 7	0–98
XXVII.	STREETS	-119
XXVIII.	Parks and Public Recreation 120	⊢138
XXIX.	WATER SUPPLY	⊢162
XXX.	Public Sanitation	–183
	PUBLIC SAFETY	
XXXI.	Police Administration	-205
XXXII.	MUNICIPAL POLICE COURTS 206	–220
XXXIII.	CRIME AND CORRECTION IN CITIES 221	-238
XXXIV.	Fire Prevention and Fire Protection . 239	-257
/ PUI	BLIC HEALTH AND SOCIAL WELFARE	
XXXV.	Public Health and Hygiene 258	–281
XXXVI.	Housing and Housing Reform 282	-3 05
XXXVII.	Poor Relief and Social Amelioration . 306	-327
XXXVIII.	THE CITY Schools	-353

vi

	PUBLIC UTILITIES
CHAPTER XXXIX.	Public Lighting
XL.	MUNICIPAL TRANSPORTATION 371-396
XLI.	THE REGULATION OF MUNICIPAL UTILITIES 397-416
XLII.	Municipal Ownership 417-443
	MUNICIPAL FINANCE
XLIII.	MUNICIPAL REVENUES 444-470
XLIV.	MUNICIPAL EXPENDITURES

CONTENTS

VOLUME II ADMINISTRATION

Abbott, F. F., Society and Politics in Ancient Rome, I, 21 n; 34; Roman Political Institutions, 34: The Common People of Ancient Rome, 34.

Abbott, H. S., Treatise on the Law of Municipal Corporations, I, 215. Absent voting, I, 285.

Accounting, municipal, II, 481-482. Activated sludge process, in sewage

disposal, II, 179.

Adams, John, on the relation of education to democracy, II, 351.
Adams, Thomas, "Modern City

Planning," II, 79 n, 97
Adams, T. S., Needed Tax Reforms

in the United States, II, 469. Adoptive acts, in English boroughs.

I, 165.

Ædiles, in ancient Rome, I, 29. Age groups, the distribution of population by, in cities, I, 127-128.

Agg, T. R., The Construction of Roads and Pavements, II, 120.

Agriculture, improvements in, their effects on city growth, I, 111-114. Aldermen, in mediaeval cities, I, 52.

See also City Council.

Alexander the Great, cities founded

by, I, 17.
Alger, G. W., The Old Law and the New Order, II, 220.

Aliens, in American cities, I, 129. See also Immigration.

Allen, W. H., Modern Philanthropy, II, 827.

Allison, E. P., and Penrose, Boies, History of Philadelphia, I, 108.

American Federation of Labor, charters granted by, to organisations of municipal employees, II, 46-47.

American Judicature Society, plan of municipal courts devised by, II, 212-213.

Amsterdam, the rise of, I, 61; present birth-rate of, 132.

Amtsrichters, in German cities, II, 210.

Anderson, A. P., Modern Road Building and Maintenance, II,

Anderson, Earl A., "Street Lighting and Public Safety," II, 360 n.

Anderson, F. M., Constitutions and Other Select Documents Illustrative of the History of France, I, 64 n, 66 n.

Anderson, William, Law of Special Legislation and Municipal Home Rule in Minnesota, I, 172; City Charter-Making in Minnesota.

Andrews, J. B., See Commons, J. R. Antwerp, the rise of, I, 60-61.

Appointments, municipal, I. 385; of department heads, II, 22-23; of subordinate employees. 31-34; of judges and magistrates 209; of firemen, 251-252; of school boards, 333; of teachers in cities, 339-340; in general, 377-378; under the city manager plan, 421, 433; of assessors, 450-451. See also Merit System, Spoils System.

Appropriations, municipal, how made, II, 471-472; transfers of, 476-477. See also Budgets.

Arent, L., Electric Franchises in New

York City, II, 415.

Aristophanes, on conditions in ancient Athens, I, 9, 14.

Aristotle, on weaknesses in the government of ancient cities, I, 33-34; on maximum city population, 121.

Arndt, W. T., Emancipation of the American City, I, 171; II, 491. Arnold, Bion J., Report on Pittsburg Transportation Problems, II, 379 n.

Arnold, R. J., The Law Relating to Municipal Corporations in Eng-

land and Wales, I, 215.

Arnold, W. T., The Roman System
of Provincial Administration, I, 35.

Aronovici, Carol, Housing and Housing Problems, II, 289 n. 303. Aschrott, P. F., English Poor Law System, Past and Present, II, 326. Ashes, the removal of, by sanitary department in cities, II, 164.

uepartment in cities, II, 164.
Ashfield, Lord, "The Problem of the Fare," II, 396.
Ashley, Percy, Local and Central Government, I, 171.
Assessment, of property for taxation, II, 448-452.
Associated Chamilton in Associated Chamilton in II.

Associated Charities, in American cities, II, 314.

Athens, location and topography of, I, 8-10; municipal government of, 11-12; municipal activities of, 13-14; finances of, 15-16; water supply of, II, 139.

Athletic fields, municipal, II, 124-125. See also Playgrounds.

Auditoriums, municipal, II, 137. Australia, urban concentration in I. 111.

Australian ballot, I, 275.

Avebury, Lord, On Municipal and National Trading, II. 442.

Ayers, M., Williams, J. F., and Wood, T. D., Healthful Schools; How to Build, Equip and Maintain Them, II, 347 n.

Ayres, L. P. See Gulick, L. H.

Babbitt, Harold, E., Sewerage and Sewage Treatment, II, 177 n, 179 n, 180 n, 183.

Babeau, Albert, La ville l'ancien régime, I, 64 n.

Babylon, the size and population of,

Baer, D. A., "Justice for the Poor Man," II, 220. Bagehot, Walter, on the stimulus

of city life, I, 2.

Baker, A. G. and Ware, A. H., Municipal Government of the City of

New York, I, 457.
Baker, I. O., Treatise on Roads and Pavements, II, 119.
Baker, Newton D., mayor of Cleveland, I, 392.

Baldwin, F. Spencer, "Retirement Systems for Municipal ployees," II, 51.

Baldwin, R. N., Juvenile Courts and Probation, II, 238. Ballard, A., The Domesday Boroughs, I, 44 n.

Ballots, at municipal elections, in Europe, I, 272-273; in the United States, 273-279. See also Prefer-

ential voting. Proportional representation, Short ballot.

Ballou, F. W., The Appointment of Teachers in Cities, II, 335 n, 339 n, 352.

Baltimore, charter of (1789), I, 92; (1833), 94; abolition of bicameral council in, 359-360; state control

of police in, II, 190 n.
Band concerts, municipal, II, 137.
Barbillon, L. C., Traction électrique, II, 396.

Barker, H., Public Utility Rates, II, 415.

Barnett, J. D., Operation of the Initiative and Referendum Отедоп. І. 350.

Baskerville, Charles. Municipal Chemistry, II, 177 n.
Bassett, E. M. Zoning, II, 92 n.

Bastable, C. F., Public Finance, II, 468.

Bates, F. G. See Goodnow, F. J. Beaches, municipal ownership of, II,

Beale, J. H., Selection of Cases on the Law of Municipal Corporations, I, 215, 232; "Progress of the Law of Municipal Corporations, 233; Cases on Taxation, II, 469

Beard, C. A., American City Gov-ernment, II, 220, 275 n. Béchard, Ferdinand, Le droit mu-nicipal dans l'antiquité, I, 34.

Belgium, Urban concentration in, I,

Bell, Louis, The Art of Illumination. II, 369.

Bellamy, Edward, Looking. Backward, I, 124 n.
Belloc, Hilaire, and Chesterton,

Belloc, Hilaire, and Chessel. Cecil, The Party System, I, 306.

Beloch, Julius, Historische Beiträge zur Bevölkerungslehre, I, 11 n, 21 n; Griechische Geschichte, 1, 17 n, 18.

Beman, L. T., Selected Articles on Current Problems of Taxation, II, 468.

Benson, Edwin, Life in a Mediaeval City, I, 53 n.

Bentham, Jeremy, on police effi-ciency, II, 187. Benton, Josiah H., Voting in the Field, I, 288.

Berlin, the government of, during the Napoleonic occupation, I, 161; present municipal organization of, 458; sewage disposal in, II, 180181 n: housing investigations in, 284-285.

Bernhagen, L. O., The Production of Wholesome Water for Munici-

palities, II, 162. Beyer, W. C., Employment Standardization in the Public Service, II, 45 n; "Standardization of Salaries in American Cities,

Bicameral system, in city councils, I. 359-360.

Biliboards, the regulation of, II, 93-94.

Bird, Charles S., Jr., Town Planning for Small Communities, II,

Birth rate, in city and country compared, I, 131-132.
Blackstone, Sir William, Commentaries, II, 227 n.
Blair, T. S., Public Hygiene, II, 280.
Blake, H. W. and Jackson, Walter, Electric Railway Transportation, II, 396.

Bloch, Leopold, The Science of Il-lumination, II, 369.

Blümner, Leben und Sitten der Griechen, I, 18.

Board of Agriculture, in England, I, 166.

Board of Aldermen, in New York City, I, 455-456. See also Alder-men, City council.

Board of Education, in England, I, 166.

Board of Estimate and Apportionment in New York City, I, 450-451.

Board of Trade, in England, I, 166. Boards, administrative, in cities, the early development of, I, 102; merits and defects of, II, 17-22; water, 158; police, 191-193; health, 275; school, 331-335; equalisation, 449-450.

Bolander, L. H., "Partial Bibliography of Sewage Disposal," II, 183.

Bonaparte, See Napoleon I.

Bonds, municipal, II, 487-488.
Booth, Charles, Life and Labor of the People of London, I, 124 n;

II, 285 n.
Booth, H. J., Treatise on the Law of
Street Railways, II, 396.

Boots, R. S., The Direct Primary in New Jersey, I, 270; "A New Type of Direct Primary," 270; "The Direct Primary Weathers the Storm," 270. Bornhak, C., Preussisches Staats-recht, I, 215.

495

Boroughs, origin of, in England, I, 45-46; development of, in England, 72-82; in colonial America, 85-91; in the County of London, 411-442; in Greater New York, 448-449, 455.

Borrowing municipal. See Indebtedness.

Bosanquet, Helen D., The Poor Law of 1909, II, 326.

Bosses, municipal, in New York City, I, 304; in other American cities, 322-324, 327-328.

Boston, population of, in 1700; I, 89; first city charter of (1822), 94 infant mortality in, 133; ratio of home owners in, 141; nominations by petition in, 268-269; party organisation in, 302; metropolitan problems of, 456; municipal departments in, II, 14; appointment of department heads in, 23-24; park facilities of, 133-134; disposal of garbage in, 168; state control of police in, 190 n; appointment of municipal justices in, 209; juvenile court in, 234; cost of fire protection in, 255; service-at-cost on street railways of, 393; in, 455 n; budget procedure in, 475 n.

Botsford, G. W., Hellenic Civiliza-

tion, I, 18.

municipal en Angleterre, II, 442.
Brady, Robert, Historical Treatise,
I, 44 n. Boverat, Raymond, Le socialisme

Brandt, Lillian. See Devine, E. T. Breasted, J. H., History of Egypt, I, 18.

Briggs, J. E., The Direct Primary in

Two States, I, 270.

Briggs, T. H., The Junior High School, II, 343 n.

Brinkerhoff, H. M., "The Effect of

Transportation upon the Distribution of Population in Large Cities," II, 287 n.

Bristol, description of, by Pepys, I, 71.

Broad irrigation, sewage disposal by, II, 180.

Brooklyn, abolition of aldermanic confirmation by, I, 103.

Brooks, R. C., Corruption in American Politics and Life, I, 331; "Metropolitan Free Cities," 457. Brown, U. D., Brief Survey of Housing Conditions in Bridgeport, II, 304.

Bruere, Henry, New City Govern-ment, I, 415; II, 4 n, 26.

Bruges, in the sixteenth century, I,

Brunet, René, The New German Constitution, I, 306.

Bryant, J. M., and Hake, H. G., Street Lighting, II, 369.

Bryce, James (Viscount), on the origin of political parties, I, 290; Modern Democracies, 307, 331, 350-351; American Commonwealth, 332, II, 84 n; The Menace of Great Cities, 289 n. Bubonic plague. See Plague.

Buck, A. E., Budget Making, II, 482, 491.

Buck, A. M., The Electric Railway. Ц, 396.

Budgets and budget-making, in French cities, 158-159; relation of mayor to, in American cities, 387-389; under city manager plan, 422; in New York City, 451-452; in general, II, 472-477.

Buell, R. L., Contemporary French Politics, I, 306.
 Bullock, Charles J., Selected Read-

ings in Economics, I, 107; on the taxation of street railways, II, 391-392 n; Selected Readings in Public Finance, 468.

Bullock, E. D., The Short Ballot, I, 288.

Bureau of Education, at Washington, II, 337.

Burgomaster (Bürgermeister), in mediaeval German cities, I, 41; present position and functions of, 373.

Burke, Edmund, on the "pocket boroughs," I, 73.

Burnap, George, Parks, Their Design, Equipment and Use, II, 138. Burr, Aaron, a founder of Tam-

many, I, 303. Burris, W. P., The School System of Gary, Indiana, II, 346 n.

Business taxes, in American cities, II, 457-458.

California, municipal home rule in, I, 154, 182; municipal debt limits in, II, 484.

Cammen, Léon, Government Ownership of Public Utilities in the United States, II, 442. Campaign funds, municipal, I. 317-319

Capes, W. P., The Modern City and its Government, I, 193 n, 415, 435; II, 8 n, 13 n, 26, 69, 401, 482; (and Carpenter, J. D.) Municipal Housecleaning, 166 n, 183.

Carman, H. J., Street Surface Railway Franchises of New York City, II, 396.

Carpenter, J. D. See Capes, W. P. Carr-Saunders, A. M., Population Problems, I, 149.

Carthage, ancient, size and importance of, I, 7.
Carver, T. N., Essays in Social Justice, II, 460 n.
Castiglione, P., Della populazione di Roma, dalle origini ai nostri tempo, I, 21 n.
Catlett, F. W., "Municipal Ownership in Scattle" II 305 n.

ship in Seattle," II, 395 n.

Cato, on the physique of urban and rural soldiers, I, 134 n.

Censorship, of public recreation, II.

Chandler, G. F. and others, The Policeman's Art, II, 205.

Chang, T. S., History and Analysis of the Commission and City Manager Plans, I, 107, 415, 435; II, 26. Channing, E., Hart, A. B., and Turner, F. J., Guide to the Study and Reading of American History, I, 108.

Chapin, C. V., The Sources and Modes of Infection, II. 258 n.

Charities. See Poor Relief. Charity Organization Societies, in American cities, II, 314.

Charles II, king of England, revocation of municipal charters by, I, 73.

Charters, municipal, in the middle ages, I, 42-44; in mediaeval England, 47; of English boroughs in the sixteenth century, 72; in American colonial boroughs, 86; modern methods of granting, 155-156; recent development and types of, 173-196; the interpretation of, 199-209.

Chartists, program of the, I, 253 n. Chatburn, G. R., Highway Engineering, II, 120.

Checks and balances, the doctrine of, applied to cities, I, 93.

Chesterton, Cecil. See Belloc, H. Chicago, charter of (1837), I, 95; rapid growth of, 100; veto of state legislation by, 180-181; party organization in, 301-302; disintegration of municipal functions in, 456; municipal departments in, II, 14; the Sanitary District of, 174-175; election of municipal justices in, 209; unification of the municipal court in, 212; cost of fire protection in, 255; school system of, 331; budget-making methods of, 475 n.

Childs, R. S., The Short Ballot, I, 288

Chlorination, of water supply, II,

151; of sewage, 179 n. Choate, Joseph H., American Ad-

dresses, I. 332. Choisy, F. A., L'art de bâtir ches les Romains, I. 35.

Church, relation of the, to medi-

aeval city growth, I, 37, 55. City council, the development of, in Europe and America, I, 352-359; present organisation of the, 359-365; procedure, 365-368; powers, 368-371.

City manager plan, origin of, I, 416-417: essential features of, 418-423: apread of, 423-425; merits and defects of, 425-434.

City planning, scope and develop-ment of, II, 70-78; organisation of, 78-81; various phases of, 81-95; finance of, 95-96; in relation to parks, 121-122; in relation to sewerage, 171-172; to public lighting, 363-364; to municipal transit, 374-375.

Civil Service. See Merit System. Civil War, American, effect of, on

city growth, I, 100. Clark, A. B., "Recent Tax Develop-. ment in Western Canada," II. 461

Clark, Fred E., Purposes of the Indebtedness of American Cities, II,

Clark, H. C., Service-at-Cost Plans, II, 396; Service-at-Cost Franchises in Effect in America, 396.

Clarke, J. J., Local Government of the United Kingdom, I, 171; The Housing Problem, II, 303; Social Administration, 315 n.

Classified Property Taxes, II, 453-454.

Classified Service. See Merit System.

Cleveland, adopts city manager plan, I, 424-425; garbage reduc-

tion in, II, 167; unification of municipal court in, 212; serviceat-cost on street railway system of, 393; budget-making procedure in, 475 n.

Cleveland, F. A., "Essentials of a Municipal Budget," II, 491; (and Buck, A. E.) The Budget and Responsible Government, 491.

Cleveland, Grover, as mayor of Buffalo, I, 392.

Clubs, political, I, 312-313. Clute, William K., The Law of Modern Municipal Charters, I, 172, 415, 435.

Cockburn, A. E., The Municipal Corporations of England and Wales, I, 78 n.

countries, I, 68, 152, 159-160.
Colby, C. W., "The Growth of Oligarchy in the English Towns," I, 50 n.

Collier, N. C., Treatise on the Law of Public Service Companies, II, 416.

Collusive bidding, II, 62.

Colquhoun, Patrick, On the Police of the Metropolis, II, 186 n. Commerce, as a builder of cities, I,

119-122.

Commission Plan, in American cities, origin of, I, 396-401; spread of, 401-405; merits and defects of. 405-414; future of, 414-415.

Committees, in city councils, I, 365-368; in school boards, II, 334-335. Commons, J. R., Proportional Representation, I, 288 (and Andrews, J. B.) Principles of Labor Legislation, II, 327

Communes. See France. Community Chests, II, 326.

Compulsory school attendance, II, 342-343.

Compulsory voting, I, 285-286. Comstock, Alsada, State Taxation of Personal Incomes, II, 453 n, 468.

Condemnation of land, for public improvements, II, 87-88. See also Excess Condemnation.

Confirmation, of mayor's appointments, I, 103, 385-387.

Congestion, in modern cities, II, 262-**290**.

Conjurates, in mediaeval French cities, I, 42-43.

Consequences of city growth, I, 124-149.

Consuls. in mediaeval cities, I,

Contact beds, in sewage disposal, II, 179.

Contracts, municipal, legal status of. I, 221; preparation and awarding of, II, 59-65; for garbage collec-tion, 168-169; for public lighting, 366-369.

Conventions, nominating, I, 260-261; pre-primary, 268-269.

Conway, J. P. See Skehan, J. J. Cooke, Morris L., Our Cities Awake, II, 26, 51, 56 n, 61 n,

Cooley, R. W., Handbook on the Law of Municipal Corporations, I, 215; Illustrative Cases on Mu-

nicipal Corporations, 215. Corporations, municipal, in the Roman empire, I, 33; in mediaeval England, 52-53; in the American colonies, 85; present status of, 198-215.

Correction, theories in relation to, II, 227-228; methods of, 231-236; organization of, 237. See also Crime.

Corrupt practices, in municipal elections, I, 283-285.
Council. See City Council.
Courts of Domestic Relations, II,

218.

Courts, municipal. See Police Courts.

Cox, George B., of Cincinnati. I.

326-327. Crane, R. T., Loose Leaf Digest of City Manager Charters, I, 197, 422 n, 434.

Crime, ratio of, in city and country I, 138-139; development of, II, 221-222; classifications of, 223-224; causes of, 224-225; in the United States; 225-226; methods of dealing with, 227-229; localized centers of, 229-230; modern methods of correction in relation to, 231-237. See also Correction

Croker, E. F., Fire Prevention, II.

Croker, Richard, of Tammany Hall,

I, 325-326. Crosby, E. N., Fiske, H. A., and Foster, H. W., Handbook of Fire Protection, II, 256.

Crowder, Gen. Enoch, on rural and urban physique, I, 136-137.

Crusades, effect of, on European municipal growth, I, 39; on the

obtaining of Charters, in France. 43, in England, 48.

Cubberley, E. P., Public School Administration, II, 336 n, 352; Readings in the History of Education. **352**.

Cunningham, William. Western Civilization in its Economic Aspects, I, 14 n.

Curtius, Ernst, History of Greece. I. 18. Die Stadtaeschichte von Athen, 18.

Cushman, R. E., "Non-partisan Nominations and Elections," I, 265 n; Excess Condemnation, II, 89 n.

Dallinger, F. W., Nominations for Elective Office in the United States, I, 260 n, 270.

Dante, on the political genius of the Romans, I, 34.

Darrow, Clarence, Crime: Its Cause and Treatment, II, 221 n, 226 n,

Darwin, Leonard, Municipal Ownership, II, 417 n, 442.

Davies, A. Emil, The Case for Na-

tionalization, II, 441. D'Avigdor, E. H., "The Waterworks of Ancient Rome," II, 140 n.

Davis, W. S., A Day in Old Athens, I, 18; A Picture of Athenian Life, 18.

Dawson, W. H., Municipal Life and Government in Germany, I, 164 n, 171; 372; 395, II, 296 n, 384 n, 442, 469; Social Insurance in Germany, II, 308 n.

Day labor system, in public works, II, 64-67; in garbage collection, 168-169.

Dayton, origin of city manager plan in, I, 417-418.

Death rates, in city and country, I, 132-134.

Debt limits, municipal, II, 484.

Debts, municipal. See Indebtedness.

De Forest, Robert W., and Veiller, Lawrence, The Tenement House Problem, II, 286 n, 304.
Delegations of power, I, 207, 208.

Denver, the juvenile court in, II,

Departments, administrative, in European and American cities, II, 3-26.

Deputationen, in Prussian cities, II, 10.

Des Moines, establishment of com-

mission government in, I, 402. Detroit, charter of (1815), I, 93; (1824), 94, 95; unification of municipal court in, II, 212; municipal ownership of street railway system in, 395 n.

Dexter, E. G., History of Education in the United States, II, 352.

Dick, J. L., Defective Housing and

Growth of Children, II, the 304.

Dill, Samuel, Roman Society from Nero to Marcus Aurelius, I, 34.

Dillon, John F., Commentaries on the Law of Municipal Corporations, I, 33 n, 172, 200 n, 209 n, 215, 228 n, 229 n, 232, 287, 351, II, 6 n, 26, 52, 120, 220, 442, 491.

Direct legislation, in cities, I, 335-

Direct Primary. See Primary. Disinfection, of water supply, II, 151; of sewage, 179 n; of premises as a health measure, 256.

Dissolution, of municipal corpora-tions, I, 214-215.

Dodd, W. F., State Government, I, 350, II, 220.

D'Olier, William L., The Sanitation

of Cities, II, 183.

Domesday Book, enumeration of towns in, I, 46.

Doolittle, F. W., Studies in the Cost of Urban Transportation Service, II, 380 n, 381 n, 396.

Dostoievski, F. M., Crime and Pun-ishment, II, 238. Dover, A. T., Electric Traction, II,

Druge, narcotic, in relation to crime, II, 229-230; controlling the sale of, 273.

Dugdale, R. L., The Jukes, II, 309 n. Duguit, Leon, Law in the Modern

State, I, 223 n.

Durand, E. D., "Council Government versus Mayor Government," I, 372.

Dutton, S. T., and Snedden, David, The Administration of Public Education in the United States, II, 336 n, 352.

Dykstra, C. A., "Cleveland's Effort for City-County Consolidation, 1, 458.

Eaton, Amasa M., The Origin of Municipal Incorporation in England and the United States, I, 49 n. 198 n: "Right of Local Self-

Government," I, 198 n.
Eaton, Dorman B., The Government of Municipalities, II, 214 n, 275 n.

Eberstadt, Rudolf, Handbuch des

Wohnungswesens, II, 303. Eddy, H. P., "The Relative Effciency of the Day-Labor and Contract Systems of Doing Municipal Work," II, 65 n. See also Metcalf, Leonard.

Education, public, the development of, 328-329; purposes of, 329-330; control and management of, 330-331; municipal boards of, 331-335; various problems relating to, 335-349; financing of, 349-351.

Efficiency records, for municipal em-

ployees, II, 43.
Eggleston, D. C., Municipal Accounting, II, 482 n.

Elberfeld system of poor relief, II, 324-325

Election-at-Large versus election by wards, I, 362-364.

Elections, in colonial boroughs, I, 89; present methods of holding, in European and American cities, 271-286; influence of partisan politics on, 311-316.

Electricity. See Lighting. Elevated railways, II, 380-381. Eligible list. See Merit system.

Eliot, Charles W., on conditions in American cities seventy-five years ago, I, 99 n; on the commission

form of government, 402 n.
Eliot, T. D., The Juvenile Court
and the Community, II, 238.

Elliott, B. K., Treatise on the Law of Roads and Streets, II, 120. Elliott, E. C., City School Supervision, II, 352.
Ellms, Joseph W., Water Purification, II, 141 n, 153 n, 162.

Employees, municipal, character-istics of, II, 27-28; compared with private employees, 28-30; appointment of, 31-43; removal of, 44; standardising the position and pay of, 44-46; organisations of, 46-47; strikes by, 46-48; pensions for, 48-49; the education of, 50; relation of municipal ownership to, 437-438. See also Merit system.

Emscher tanks, in sewage disposal, II, 178 n.

Engineering, municipal, II, 54-69.

England, beginnings of municipal life in, I, 44-45; development of mediaeval boroughs in, 44-57; growth of modern cities in, 67-68; municipal growth during the nineteenth century in, 82; relations of cities to national government in, 164-168; municipal suffrage in, 239-242; municipal nominations in, 258-259; organization of municipal councils in, 357-359; office of mayor in, 374-375; administrative departments in cities of, II, 8-10; development of police in, 185-188; municipal police courts in, 206-207; health supervision in, 275; poor relief in, 315; social insurance in, 316-320; public education in, 330-331; municipal ownership in, 433-434; municipal taxation in, 457-458; budget methods in, 473; municipal bor-

rowing in, 483.
Enos, W. P., Science of Highway
Traffic Regulation, II, 201 n.
Ericson, Halford, The Valuation of

Public Utilities, II, 415.

Erman, Adolf, Life in Ancient Egypt, I, 18.

Evans, E. C., History of the Australian Ballot System in the United States, I, 275 n, 278 n, 287. Evenden, E. E. See Strayer, George D

Excavations, by public service companies in city streets, II, 116.

Excess condemnation, II, 89-90. Exemption, of dwellings from taxation, II, 295.

Expenditures, municipal, in early cities, I, 15-16, 31; in modern cities, how authorized, 471-472; the control of, by budgetary methods in Europe, 472-473; in America, 473-477; growth and analysis of, 478-481; reports of, 492-493. See also Budgets. Experts. See Departments, Merit

system.

Expropriation, of private property for municipal improvements, II, 87-89.

Factory system, effect of, on city growth, I, 115-116. Fairlie, John A., Municipal Admin-istration, I, 72 n, 107, 372; Essays on Municipal Administration, 107. Family Welfare Societies, II, 314.

Fares, on street railways, II, 381-386.

Fassett, C. M., "Weakness of the Commission Plan," I, 411 n;
"Seattle's Experiment," II, 395 n.

Federal analogy, influence of the, on American city government, I, 93, 103.

Fees, municipal revenue from, II,

Ferguson, C. J., Electric Lighting, II, 369.

Ferguson, W. S., Greek Imperialism, I, 9 n, 17 n, 18; Hellenistic Athens, I, 16 n, 18.

Ferrero, G., Characters and Events of Roman History, I, 21 n.

Feudalism, in relation to city growth, I, 42-43, 55.

Fillebrown, C. B., The A B C of Taxation, II, 460 n.

Filtration, of public water supplies, II, 152-154; of sewage, 180.

Finance, municipal. See Expendi-Indebtedness. Revenues. tures, Taxation.

Fire hazards, in cities, II, 244-247. Fire limits, municipal, II, 245-246.

Fire losses, in European and Ameri-

can cities, II, 239-240.

Fire prevention, the need for, II, 240-244; methods of, 244-247; enforcement of rules relating to, 247-249. See also Fire protection.

Fire protection, in ancient Rome, I, 27-28; legal liability of city in connection with, 227-228; dependence of, on water supply, II, 154, 253-255; organization of, 249-263; cost of, 255-256. See also Fire prevention.

Firma burgi, in mediaeval English towns, I, 49.

Fish, C. R., The Civil Service and the Patronage, II, 51.

Fiske, H. A. See Crosby, E. N. Fite, E. D., Social and Industrial Conditions in the North during the Civil War, I, 100 n.

Fitspatrick, E. A., Experts in City Government, II, 26; Budget Government, II, 26; But Making in a Democracy, 491.

Flanagan, Luke, Science of Fire Fighting, II, 256.

Flexner, Bernard, and Baldwin, R. N., Juvenile Courts and Probation, II, 238.

Floy, Henry, The Valuation of Public Utility Property, II, 415.

Folwell, A. P., Municipal Engineering Practice, II, 69, 97, 138, 166 n; Practical Street Construction, 120; Water Supply Engineering, 162: Sewerage, 183.

Food, municipal inspection of, II. 272-273.

Food and Drugs Act. II, 272.

Food supply, its relation to city growth, I, 111-114.
Forbes, S. R., Aqueducts, Fountains

and Springs of Ancient Rome, I.

26 n, 35. Ford, G. B. See March, C. B.

Foreign-born, in American cities. See Aliens, Immigration.

Fosdick, Raymond B., American Police Systems, I, 413 n, 425; II, 188 n, 205, 215 n, 217 n, 218 n, 229 n; European Police Systems, II, 202 n, 205.

Foster, H. W. See Croeby, E. N. Foulke, W. D., Fighting the Spoilsmen, II, 51.

Fowler, W. Warde, The City-State of the Greeks and Romans, I, 9 n, 11 n, 18; Social Life at Rome in the Age of Cicero, 29 n, 34.

France, the early cities of, I, 42-44; rise of modern cities in, 61; urban population in 1801, 66; relation of municipal to national government in, 156-169; municipal suffrage in, 235-236; municipal nominations in, 256; organization of municipal councils in, 358-357; office of mayor in, 373-374; methods of administration in cities of, II, 10; poor relief in, 315; city schools in, 330; municipal taxation in, 465; municipal budgets in, 472; municipal borrowing in, 483.

Franchises, water supply, II, 160-161; sewer, 182-183; street railway, 390-391; general discussion of, 402-408; in New York City,

452.

Frank, Tenney, Economic History of Rome to the End of the Republic, I, 84.

Frankfort-on-the-Main, regulation of private property in, II, 90-91.
Frankfort-on-the-Main, regulation of private property in, II, 90-91.
Frankfort-on-the-Main, regulation of private property in II, 90-91.

Frauds, electoral, I, 249.
Frazier, G. W., The Control of
School Finances, II, 831 n. Free Cities, in Germany, I, 41-42, 150-152.

Frecholders, boards of, I, 183. Freitag, J. K. See Kendall, Joseph.

Freund, Ernst, Cases on Administra-tive Law, I, 215.

Friedländer, Ludwig, Town Life in Ancient Italy, I, 25 n, 32 n, 35.

Friedman, E. M., America and the

New Era, I, 113 n. Frontinus, De Aquis urbi Romæ, I, 25 n, 35; on Rome's water supply.

II, 139. Frothingham, A. L., Roman Cities in Italy and Dalmatia, I, 35.

Fuld, L. F., Civil Service Administration, II, 40 n, 51; Police Administration, 205.

Furst, Clyde and Kandel, I. L., Pensions for Public School Teach-

ers, II, 341 n. Fustel de Coulanges, N. D., The Ancient City, I, 9 n, 18.

Galveston, origin of commission plan in, I, 398, 402.

Garbage, the collection and disposal

of, II, 166-169. Garing, Charles, on the Lombrosian

theory, II, 235 n.
Garnett, W., Little Book on Water Supply, II, 162.

Gary system, II, 345-346.

Gas, public lighting by, II, 362. Gas Ring, the Philadelphia, II, 329-

330.

Gebhard, J. C., Housing Standards in Brooklyn, II, 304. Geiser, Karl F., "The German Mu-

nicipal Budget," II, 473 n.

General charter system, I, 176-179. General property tax, II, 448-453. George, Henry, Social Problems, I, 124; Progress and Poverty, II, 323 n.

Germ theory, of disease, II, 258, 260-262.

Germany, early municipal development in, I, 40-41; relation of cities to the state in, 159-164; municipal nominations in, 257; organization of city councils in, 357; office of burgomaster in, 373; administrative methods in cities of, II, 10-11; poor relief in, 315; social in-surance in, 316-320; Elberfeld system in, 465; municipal budgets in, 472-473; municipal borrowing in. 483.

Gibbon, Edward, on the population of Rome, I, 20-22; Decline and Fall of the Roman Empire, 29 m,

30 n, 35.

Gilbert, A. B., American Cities; Their Methods of Business, I, 435; II, 69, 491.

Gilbertson, H. S., The County, I.

Gilds, in mediaeval cities, I, 41-42, 50-52.

Gillin, J. L., Poverty and Dependency, II, 307 n, 327.
Giraud, P., La vie privée et la vie

publique des Grecs, I, 18.

Giry, A. and Reville, A., The Emancipation of the Mediaeval Towns. I, 36 n, 41 n.

Glasgow, water supply of, II, 147; zone-fare system in, 384; an zone-fare system in, 384 "over-municipalized" city, 419 n.

Goddard, H. H., Juvenile Delinquency, II, 238.

Goldsmith, Oliver, on the rural depopulation of England, I, 116, 134.

Goodnow, F. J., City Government in the United States, I, 145 n; Municipal Home Rule, I, 177 n, 229 n; Comparative Administrative Law, I, 215; Selected Cases on the Law of Public Officers, I, 215; (and Bates F. G.) Municipal Government, I, 123, 171, 372, 395; II, 26, 220, 327, 491. Gordon, Mary, Criminal Discipline,

II, 238.

Gorham, Frederic P., "The History of Bacteriology and Its Contribution to the Public Health," II, 259 n.

Grais, Hue de, Handbuch der Ver-fassung und Verwaltung, I, 215. "Grandfather clause," in state con-

stitutions, I, 245 n. Graper, E. D., American Police Administration, II, 198 n, 205.

Gras. Norman B. S., "The Development of Metropolitan Economy,

I, 119 n, 436 n.
Graves, F. P., History of Education in Modern Times, II, 352.

Greater Berlin, the present government of, I, 458.

Greece, the cities of, I, 8-9.

Greeley, S. A. See Hering, Rudolf. Green, Mrs. J. R., Town Life in the Fisteenth Century, I, 45 n.

Greenidge, A. H. J., Roman Public Life, I, 34. Grelling, Richard, Das Verbrechen,

II, 238

Grice, J. Watson, National and Local Finance, II, 445 n, 468, 469.

Gridiron plan, of street layout, II. 83-84. Grohen, W. E., Modern Industrial

Housing, II, 304.

Gross, Charles, Bibliography British Municipal History, I, 57; The Gild Merchant, 174 n.

Gross earnings, as a basis for taxa-

tion, II, 462. Grote, George, History of Greece, I,

Grunski, C. E., Valuation, Depreciation and Rate Base, II, 415; Public Utility Rate-Fixing, 415.

compagnes vers les villes, I, 123. ulick, C. B. Life of Guillou, Jean, L'émigration

Gulick, C. B., Life of the Ancient Greeks, I, 18. Gulick, L. H., "Model System of Municipal Revenues," II, 469; Municipal Budget Standards, 491.

Gulick, L. H., and Ayres, L. P., Medical Inspection of Schools, II,

270 n.
Guyot, Yves, Where and Why Public Ownership Has Failed, II, 434 n, 442.

Haines, C. G. and Bertha, Principles and Problems of Government, I. 307.

Hake, H. G. See Bryant, J. M. Hall, A. B., Popular Government, I, 270, 350, 351.
Hammond, B. E., Political Institu-

tions of the Ancient Greeks, I, 18. Hammond, J. L. and Barbara, The Town Labourer, I, 74 n.

Hanseatic League, cities of the, I,

Hanus, P. H., School Administration and School Reports, II, 352.

Hare plan of proportional representation, I, 282-283.

Harley, Herbert, "The Model Mu-nicipal Court," II, 212 n.

Harris, P. A., London and Its Gov-ernment, I, 442 n, 457. Harrison Act, II, 273. Harrison, Ward, Electric Lighting,

II, 369.

Hart, A. B., "A Government of Men," I, 331 n; See also Channing, Edward.

Hartley, James, and Winstanley, Albert, The Housing Problem: Its Modern Aspects and Practical Solution, II, 303.

Haussmann, Georges-Eugène, planning of Paris by, II, 76.

Fair Present Value and Return, II. Hazen, Allen, Clean Water and How to Get It, II, 143 n, 148 n; Meter Rates for Water Works, 157 n. Headlam, J. W., Election by Lot at Athens, I, 12 n. Heads of Departments. See Departments. Health. See Public Health. Health insurance, II, 317-318. Healy, William, The Individual Delinquent, II, 238.
Hegemann, Werner, and Peets, Elbert, American Vitruvius: An Architect's Handbook of Civic Hemenway, H. B., Legal Principles of Public Health Administration, 11, 276 n, 280. Hénard, Robert, Les jardins et les squares, II, 137. Henderson, C. R., The Cause and Cure of Crime, II, 238; Correction and Prevention, 238. Henry I., king of England, confirms charter of London, I, 47. Henry II, king of England, grants new London charter, I, 174. Heracleides, his description Athens, I, 16-17. Hering, Rudolph, and Greeley, S. A., The Collection and Disposal of Municipal Refuse, II, 168 n, 183. Herodotus, on the area of Babylon, Herschel, Clemens, The Two Books of the Water Supply of Rome, I, 25 n, 85. High pressure fire protection, II, 254. Hill, H. H., The New Public Health, II, 260 m. Hirst, F. W. See Redlich, J. Hobson, J. A., The Evolution of Modern Capitalism, I, 139 n.
Hoffmeister, K., Die wirthschaftsliche Entwicklung Rome, I, 34.
Hollander, Jacob H., The Abolition
of Poverty, II, 327. Holm, Adolf, History of Greece, I. Home Office, in England, I, 166. Home rule, municipal, beginnings

Haverfield, F. J., Ancient Town Planning, I, 35; The Romanization of Roman Britain, 35, 45 n.

Hayes, E. C., Introduction to the Study of Sociology, I, 128 n, 146 n. Hayes, H. V., Public Utilities: Their

of, I, 105; causes of the movement for, 154; spread of, 182-183; merits and defects of, 184-190; as applied to the party system, 299; in school administration, II, 336-337. Homo, Léon, Problèmes sociaux de jadis et d'à présent, I, 22 n, 30 n, 31 n, 34. Hood, W. R., and others, Digest of State Laws Relating to Public Education, II, 352. Hormell, O. C., The Direct Primary, with Special Reference to the State of Maine, I, 268 n, 270. Horwill, H. W., "Problems of Local Taxation in England," II, 469. Horwood, M. P., Public Health Surveys: What They Are; How to Make Them; etc., II, 281.

Hough, Walter, "The Development of Illumination," II, 354 n. Housing, in ancient cities, I, 14, 22, 24; in modern cities, II, 282-290; the improvement of, 290-304.

Housing of the Working Classes Act (1890), II, 285.

Howe, F. C., The City: The Hope of Democracy, I, 170 n, 331; II, 432 n; The Modern City and Its Broblems 171. Furnment Cities at Problems, 171; European Cities at Work, II, 434 n, 441.
Hoyt, J. See O'Shaughnessy, M. Μ. Hubbard, Henry V., "Parks and Playgrounds," II, 127 n. Hughes, Charles E. The Fate of the Direct Primary, I, 270. Hugo, Victor, on the study of social infirmities, II, 221.
Hulsen, C. See Keipert, H. Humphreys, J. H., Proportional Representation, I, 288. Hunter, M. H., Outlines of Public Finance, II, 460 n, 462 n, 468. Huse, C. P., Financial History of Boston, I, 108. Hutton, J. E., Welfare and Housing, II, 303.

Ignatius, M. B., The Financing of Public Service Corporations, II, 415. Ihering, Rudolph, von, Evolution of the Aryans, I, 9 n. Ihne, W., History of Rome, I, 35. Illinois, first American municipal code in, I, 152-153; special legislation for cities in, 180-181; civil service system of, II, 36-37.

Illiteracy, in city and country, I. 137-138; in relation to crime, II, 224. See also Suffrage. Imhoff tanks, in sewage disposal, II,

178 n.

Immigration, relation of, to city growth, I, 99; effects of, on cities, 127-132. See also Aliens.

Incendiarism, as a cause of fires, II,

Incidence, of municipal taxes, II. 244.

Incomes, average, in cities and country, I, 142-143.

Income taxes. See Taxation.

Incorporation, municipal, the history of, I, 174-175. See also Corporations, municipal.

general Indebtedness, municipal, discussion of, II, 483-489

Indeterminate sentences, II, 232-233. Indiana, prohibition of special legis-lation for cities in, I, 153; state control of municipal taxation in, II, 452 n; of municipal indebtedness in, 485.

Indoor relief, II, 313.

Industrial accidents, as a cause of poverty, II, 316-317.

Industrial hygiene, II, 268-269.

Industrial Revolution, effects of, on city growth, I, 74, 115-119. Industry, effect of, on city growth,

I, 114-119; in relation to the alien influx, 129-130.

Infant mortality, in cities, II, 272. Inherent powers, the doctrine of, I, 198-199.

Initiative and referendum in cities. I. 335-348.

Innoculation, as a public health measure, II, 267-268.

Insanity, relation of crime to, II,

Insurance, in relation to fire losses, II, 244. See also Social insurance. Intangibles, the assessment and taxation of, II, 451-452.
Intermittent filtration, in sewage disposal, II, 178-179.

International Health Office, II, 279. Interpretation, of municipal ordinances, I, 213-214. See also Char-

Intoxicants. See Liquor traffic. Iowa, the exodus to the cities from, I, 113.

Italy, development of cities in, I, 39, 59; unemployment insurance in, II, 321.

Jackson, Andrew, and the genesis of the spoils system, I, 96.

Jackson, Dugald C., and McGrath, D. J., Street Railway Fares, H. 396.

Jackson, Walter, "The Place of the Motor Bus," II, 389 n. See also Blake, H. W.

James, H. G., Applied City Govern-ment, I, 197, II, 220; Local Government in the United States, I. 372, 457; Municipal Functions, II, 491.

Jastrow, Morris, Jr., The Civilization of Babylonia and Assyria, I.

Jefferson, Thomas, on the dangers to urban democracy, I, 144.

Jerusalem, as an ancient city, I, 8. Jeudwine, J. W., Tort, Crime, and Police in Mediaeval Britain, II, 223 n.

Jitney transportation, in American

cities, II, 388-390. John, king of England, borough

charters granted by, I, 48.

Johnson, Tom L., mayor of Cleveland, his executive methods, I, 390; My Story, 395; on "good"

franchises, II, 405.

Jones, T. J., Sociology of a New York City Block, II, 283 n.

Jowett, Benjamin, The Politics of Aristotle, I, 7 n; Thucydides, 18. Juges de la paix, in French cities, II. **209.**

Junior high schools and colleges, II, 343.

Justice. See Courts. Juvenile courts, II, 218-219, 234.

Kales, Albert M., Unpopular Gov-ernment in the United States, I, 350, 415; II, 213 n, 214 n.

Kansas City, Kansas, ownership in, II, 420. municipal

Kansas City, Missouri, state control of police in, II, 190 n.

Keegan, George, and Wood, F. F., Transportation Facilities of Lon-

don and Paris, II, 396.
Kelly, "Honest John," I, 325.
Kelso, R. W., History of Public
Poor Relief in Massachusetts,
1620-1920, II, 326.
Kemp, E. L., History of Education,
II 359.

II, 352.

Kendall, Joseph (formerly Joseph Kendall Freitag), Fire Prevention and Fire Protection, II, 256.

Kenwood, Henry, Hygiene and Pub-lic Health, II, 280. Kerr, J. W. and Moll, A. B., Organ-

ization, Powers, and Duties of

Health Authorities, II, 281.
Kettleborough, Charles, The Direct
Primary in Indiana, I, 270.
Kiepert, H. and Hülsen, C., Formæ
urbis Romæ antiquæ, I, 35.
Kilson F. P. Sant Tamana.

Kilroe, E. P., Saint Tammany, and the Origin of the Society of Tammany, or Columbian Order, in the City of New York, I. 332.

Kimball, Everett, State and Munici-

pal Government in the United States, I, 172, 372, 435. Kimball, Theodora, Manual of In-formation on City Planing and Zoning, II, 97; Bibliography on

Streets; their arrangement, Lighting and Planning, 119.
King, Clyde L., History of the Government of Denver, I, 108; The Regulation of Municipal Utilities,

II, 415, 427 n, 436 n.
Kinnecut, L. P., Winslow, C. E. A.
and Pratt, R. W., Sewage Disposal, II, 183.

Kircher, Athanasius, De Pestilentia in Universum, II, 258 n.

Klose, Georg, Die Stadtstrassenbau,

II, 119. Knoop, Douglas, Principles and Methods of Municipal Trading, II, 289 n, 434 n, 442.

Knowles, Morris, Industrial Housing, II, 804.

Koester, Frank, Modern City Plan-ning, II, 97. Kramer, S., The English Craft Gilds and the Government, I, 45 n.

Kumm, Harold F., The Legal Relation of City and State with Reference to Public Utility Regulation, II, 408 n, 416.

Labor colonies, municipal, II, 820-321.

Labor Party, in local politics, I, 297. Laidler, H. W., Public Ownership Throughout the World, II, 442.

Lanciani, R., Ruins and Excavations of Ancient Rome, I, 21 n, 24 n, 34, 38 n; Ancient Rome in the Light of Recent Discoveries, 28 n, 27 n, 29 n, 34; Forma urbis Roma, 35.

Land, the acquisition of, for public improvements, II, 87-90.

Larson, L. M., Financial and Administrative History of Milwaukee, I, 108.

Lawton, G. W., The American Caucus System, its Origin, Purpose,

and Utility, I, 270.

Leach, A. E., Food Inspection and Analysis, II, 280.

League of Nations, public health functions of the, II, 279-280.

Lecky, W. E. H., The Map of Life,

I, 291 n.

Lee, Joseph, Play in Education, II. 348 n.

Lee, W. L. M., History of Police in England, II, 186 n, 187 n.

Leger, A., Les travaux publics au temps des Romains, I, 35.

Leighton, M. O., The Pollution of the Illinois and Mississippi Rivers by Chicago Sewage, II, 177 n.

L'Enfant, Pierre-Charles, planner of Washington, D. C., II, 74-75.

Leutscher G. D., Early Political Machinery in the United States, I. 270.

Lewis, F. W., State Insurance, II. 308 n.

Lewis, John, Law of Eminent Do-

main, II, 88 n.
Lewis, Nelson P., The Planning of
the Modern City, II, 70 n, 97, 119,
137; "Street Widening to Meet Traffic Demands," 109 n.

Lex Adickes, II, 91-92, 294.

Liability, municipal, in relation to public property, I, 220; for torts of employees, 222-232.
Libraries. See Public libraries.
Liebenam, W., Die Stadtverwaltung

in römische Reiche, I, 35.

Lighting, public, early development of, in Europe, I, 53, 63; in America, 98; modern development of, II, 354-355; popular ideas concerning, 355-356; of buildings, 356-357; of parks and streets, 357-362; of methods of, 362-364; cost of, 364-366; contracts for, 366-369. Lile, W. M., Notes on Municipal

Corporations, I. 215.
Lincoln, E. E., The Results of Municipal Electric Lighting Plants in Massachusetts, II, 438 n, 442.

Lindsey, Judge B. B., II, 234. Lippman, Walter, Public Opinion, I. **350**.

Liquor traffic, in relation to public health, II, 274,

List plan of proportional representation, I, 282. Literacy, as a qualification for voting, I, 245-246.

Local Government Board. See Ministry of Health.

Lodger problems, II, 299-300. Loeffler, H. G., "Municipal Tax Limits and Economy," II, 469.

Lombroso, Caesare, on the causes of crime, II, 235 n.

London, early charters of, I, 47; growth of (1500-1700), 68; Wren's plan for, 72-73; present population of, 82; excess of deaths over births in, 132 n; municipal parties in, 296-297; present government of, 438-443; sewage disposal in, II, 178; police system of, 185-188; fire department of, 250; municipal housing in, 284-285, 291; municipal ownership of street railways

Lord Mayor, of London, I, 439. Los Angeles, the water supply of,

П, 147. Love, A. B. and Davenport, C. B.,

Defects Found in Drafted Men, 1, 136 n.

Lowell, A. Lawrence, Government of England, I, 239 n, 306; Public Opinion in War and Peace, I, 268 n, 289 n, 307, 334, 350; Governments and Parties in Continental Europe, 306; Public Opinion and Popular Government, 307, 350; in Municipal Program, 434 n, "Ex-perts in City Government," II, 11 n.

Luckiesh, M., The Lighting Art, II, 357 n. 369.

Ludington, A. C., American Ballot Laws, I, 287.

Luetscher, G. D. Early Political Machinery in the United States. I. 270.

Lumb, G. F., Police Training, II, 205. Lump sum budgets, II, 475-476.

Lutz, H. L., The State Tax Com-mission, II, 449 n; "The State Tax Commission and the Property Tax," 451 n; Classification of Property for Taxation, 453 n. Lyle, W. T., Parks and Park Engi-neering, II, 138.

Mabie, C. E., "Selected Articles on the City Manager Plan of Gov-ernment," I, 435.

Macaulay, Lord, History of England, I, 68 n; description of London, 68-71.

Machines, political, in city politics, I, 321-322. See also Voting machines.

Macy, Jesse, Party Organization and

Machinery, I, 307, 332.

Macy, John E., Selection of Cases on Municipal or Public Corporations I, 215, 232.

Madox, Thomas, Firma Burgi, I, 44 n, 47 n.

Magnusson, L., Housing by Employers in the United States, II. 303.

Mahasiy, J. P., What Have the Greeks Done for Modern Civilization, I, 17 n, 18; Old Greek Life, 18; Social Life in Greece, 18. Maine, Sir Henry, Ancient Law, II.

222 n.

Maire, office of, in France, I, 373-

Maitland, F. W., Township and Borough, I, 44 n.

Malaria, the suppression of, II, 263.

Manager. See City manager.
Manny, F. A., City Training Schools
for Teachers, II, 341 n.
Marsh, C. B. and Ford, G. B., In-

troduction to City Planning, II, 97.

Marsh, Edward C., A Sketch of the Merit System, II, 51; "The Civil Service in Post-War Readjustment," 51.

Marshall, John, Chief Justice, on the power to tax, II, 455. Maspero, Gaston, The Dawn of Civilization I, 18; Life in Ancient

Egypt and Assyria, 18.

Massachusetts, frequency of charter amendments in, I, 186; optional charter system, in, 191; civil service system of, II, 35-36; taxation of public utilities in, 461.

Masterman, C. F., How England is Governed, I, 375 n, 442 n. Matthews, Nathan, Municipal Char-

ters, I, 193 n, 197, 415.

Mawson, T. H., Civic Art, II, 97, 137.

Maxey, C. C., The Political Inte-gration of Metropolitan Com-munities, I, 437 n, 457.

Mayor, the office of, in mediaeval English boroughs, I, 52; in American colonial boroughs, 88; after the American Revolution, 94;

development in powers, 103; present status and functions of, in Europe, 373-376; in America, 376-381; powers pertaining to, 390-291; in New York City, 449-450. See also Burgomaster. Mayors of arrondissements, in Paris.

McAdoo, William, Guarding a Great City, II, 205; "Protecting the Poor

Man in Court," 220.

McBain, H. L., The Law and Practice of Municipal Home Rule, I, 104 n, 172, 179 n, 180 n, 183 n, 198 n, 457; American City Progress and the Law, 172, 184 n, 202 n, 203 n; II, 94 n, 98, 435 n, 442; "The Doctrine of an Inherent Right of Local Self Government," I, 172; "Proportional Representation in American Cities," 288; (and American Cities," 288; (and Rogers, Lindsay), The New Con-

stitutions of Europe, 288.

McDougall, William, The Group
Mind, I, 289 n.

McGrath, D. J. See Jackson, Du-

gald C.

McKinley, A. E., Suffrage Franchise in the Colonies, I, 240 n. McKinsey, J. O., Budgetary Control,

II, 491.

McQuillin, Eugene, Treatise on the Law of Municipal Corporation, I, 202 n, 208 n, 215, 107, 172, 198 n, 202 n, 208 n, 215, 219 n, 232, 287, 372, 415, II, 220, 443, 491; Law of Municipal Ordinances, I, 209 n.

Medical health officers, II, 276-

278.

Mcrewether, H. A. and Stephens, A. J., History of the Boroughs and Municipal Corporations of the United Kingdom, I, 44 n, 239 n.

Meriam, Lewis, Principles Governing the Retirement of Public Em-

ployees, II, 50 n, 51.

Merit system, beginnings of the, II 33; its purposes, 34; its essential features, 35-38; advantages and defects of, 38-44; in the water departments of cities, 159-160; in the

police departments, 198 n.
Merriam, Charles E., "Nominating
Systems," I, 266 n; Primary Elections, 270; "Recent Tendencies in the Primary Election System," 270; American Party System, 270, 289 n, 291 n, 807, 830 n, 831. Metcalf, Leonard and Eddy, H. P

Sewerage and Sewage Disposal, II.

177 n, 183. American Sewerage Practice, 183.

Meter system. See Water rates. Metropolitan cities, the government of, I, 438-437. See also Berlin, London, New York, Paris.

Metropolitan Police. See London.

Peel.

Meuriot, P. M. S., Des agglomerations urbaines dans l'Europe contemporaine, I, 123, 149.

Meyer, Eduard, Die wirtschaftliche Entwicklung des Altertums, I. 5 n.: Geschichte des Altertums, 18.

Meyer, E. C., Nominating Systems, I, 270.

Michels, R., Political Parties, I. 295

Middle Ages, development of European cities during the, I, 36-56.

Milk supply, relation of the, to public health in cities, II, 270-272. Mill, John Stuart, Political Econ-

omy, II, 425 n.

Millar, Preston S., "The Effective IIlumination of Streets," II, 369.

Miller, J. D., "The Single Tax and American Municipalities," II 461

Ministry of Health, in England, I, 166; II, 275; supervision of municipal poor relief authorities by the, 315.

Ministry of the Interior, in France, I, 158.

Ministry of Labor, in England, II.

Ministry of Transport, in England. I, 166.

Minneapolis, present city charter of (1920), I, 192-193 n.

Missouri, municipal home rule policy in, I, 154, 182.

Mitchel, John Purroy, mayor of New York, executive methods of, I, 390; "The Office of Mayor, 395; on police discipline, II, 200;

tries to instal Gary system, 346. Mitchell, Wesley C., Income of the United States, I, 142 n.

Model charters, for American cities, I, 195-196.

Moll, A. B. See Kerr, J. W. Moltke, Hellmuth von, on urban

and rural physique, I, 135. ommsen, Theodor, "Römisches Mommsen, Theodor, "Komisches Staatsrecht, I, 35; History of

Rome, 35. Monroe, Paul. Cyclopedia of Education, II, 353. Monroe, W. S., Measuring the Resuits of Teaching, II, 340 n.

Montesquieu, Baron, theories of, their influence on American city government, I, 93.

Morality, standards of, in city and

rural population, I, 139.

Morgan, Gerald, The Public Relief of Sickness, II, 318 n.

Morgand, Léon, La loi municipale, I, 171, 215, 372, 394.

Morreson, J. C., The Legal Status of the City School Superintendent, II, 336 n.

Morse, W. F., The Collection and Disposal of Municipal Waste, II,

Moscow, before and since the Russian Revolution, I, 122.

Moses, Robert, The Civil Service of Great Britain, II, 51.

Motion pictures, the censorship of, II, 236

Municipal Corporations Act. in England, I. 76-81.

Municipal ownership, definition of, II, 417-418; extent of in Europe and America, 419-423; the issues in, 423-427; arguments for, 427-435; arguments against, 435-441.

Municipal universities, in the United

States, II, 343 n. Munro, W. B., Bibliography of Municipal Government, I, 108, 350, 415; II, 162, 183, 256; Government of European Cities, I, 237 n, 255 n, 287, 306, 372, 394, 457; II, 26; Government of American Cities, I, 457; II, 26; "Ten Years of Commission Government," I, 416 n; Principles and Methods of Municipal Administration, II, 26, 69, 491.

Myers, Gustavus, History of Tammany Hall, I, 96 n, 98 n, 101 n, 303 n. 331.

Napoleon I, Emperor of the French, centralisation of municipal government under, I, 65-66; destroys the old municipal system in Prussia, 160-161.

Napoleon III, Emperor of the French, reconstruction of Paris by, I, 67, II, 76.

Narcotics. See Drugs.

National Association of Local Government Officers, in England, II, 46.

National Municipal League, model charter drafted by, 195 n.

Natural monopolies. See Public utilities.

Navigation Acts, effect of, on English city growth, I, 66-67.

Neighborhood centers, II, 125-126. Net earnings, as a basis for taxation,

II, 463. Netherlands, the cities of the, I, 60-61.

Nettleford J. S., Practical Town Planning, II, 97.

Newcomer, Mabel, Separation of State and Local Revenues, II, 468. Newell, F. H., Water Resources: Present and Future Use, II, 145 n, 162.

Newman, B. J., Housing in Philadelphia, II, 304.

New Orleans, features in the (1815)

charter of, I, 93.

Newspapers, in municipal campaigns, I, 313-315.

New York City, first charter of, I, 86; population of, in 1700, 89; early municipal conditions in, 98; population of in 1860, 100; charter of 1830, 102; as a market, 117; estimated population of, in 1970, 122; infant mortality in, 133; party organization in, 302-305; abolition of aldermanic confirmstion in, 386; present government of, 447-457; early planning of streets in, II, 75; water supply of, 147; reorganization of police system in, 188-189; appointment of police justices in, 209; unification of magistrates' courts in, 212; fire-department of, 251-252; cost of fire protection in, 255; milk supply of, 271; public health administration in, 276 n; housing conditions in, 276, 280; tenement house department in, 302-303; school administration in, 331; municipal trans-portation in, 377; franchises in, 403-404; budget methods of, 474-475 n

New York State, percentage of foreign-born in, I, 129; death rate of, 134 n; restriction of county representation in legislature of, 148; provisions relating to municipal government in constitution of, 153; classification of cities in, 179-180; optional charter system in, 191; merit system in cities of, II. 37-38; franchise taxes in, 461.

Nichols, Philip, The Law of Taxation, II, 469.

Night courts, in cities, II, 218. Nolen, John, City Planning, II, 90 n, 97, 137; "Getting Action in City Planning," 96 n; Renlaming Small Cities, 97.

Nominations, municipal, in France, I, 255; in Germany, 257; in England, 258; in the United States, 259-270; control of, by party leaders, 309-310.

Non-partisan movements in cities. I. 298-299.

Nordau, Max, Degeneration, I, 124

Norman Conquest, effect of the, on English municipal system, I. 46-

Nuisances, municipal liability for. I, 226; abatement of by the health authorities, II, 266.

Occupation taxes, II, 457-458. Octroi, in French cities, I, 64.

Oertel, O., Die Städteordung vom 50 Mai 1865, mit Ergänzungen und Erläuterungen, I, 171.

Ogg, F. A., Governments of Europe, , 282 n, 287 (and Ray, P. O.), Introduction to American Government, 301, 307.

Ohio, prohibition of special legislation for cities in (1851), I, 153; workings of general charter system in, 178; optional charter system in, 191.

Old age pensions, in European cities. II, 318-319.

Oliver, E. H., Roman Economic Conditions, I, 34.

Olmsted, Frederick Law, Sr., on the proper functions of parks, II, 126; Public Parks and the Enlargement of Towns, 138.

Olmsted, Frederick Law, Jr., "Park Department Organisation," II, 133 n. See also Shurtleff, Flavel.

Optional charter system, I, 190-192. Ordinances, municipal, the nature of, I, 208-214; liability of cities for non-enactment or non-enforcement of, 225; methods of enacting, 368-369.

Orth, Samuel P., The Bose and the Machine, I, 325 n, 328 n, 331. Osborne, T. M., Society and Prisons,

II, 238.

O'Shaughnessy, M. M., and Hoyt, J., "San Francisco Municipal Railways from Two Viewpoints," II,

Ostrogorski, M., Democracy and the Organization of Political Parties, I, 307, 325 n, 329 n, 331. Outdoor relief, II, 313-314.

Paetow's, L. J., Guide to the Study of Mediaeval History, I, 57. Paris, early growth, of, I, 62-63; population of, during the Revolution and after, 67; its birth rate, 132; radical movements in, 146; present municipal government of, 443-447; water supply of, II, 147; public sanitation in, 173-174; fire department of, 250.

Parks, municipal, the planning and arrangement of, II, 121-123; different types of, 123-126; some general considerations in relation to, 127-131; the articulation of, 133-134; administration of, 133-134; financing the construction of, 135-136; legal status of, 218; lighting of, 357. See also Special assessments.

Parkways, planning and control of, II, 131-132.

Parlementum, or city council, in early Italian cities, I, 39.

Parliament, early representation of the English boroughs in, I, 52; relation of, to the close corpora-tions, 72. See also England.

Parmelee, M. F., Criminology, II, 238; Poverty and Social Progress, 327.

Parole, releases on, II, 233.

Parties, political, nature and purposes of, in cities, I, 289-300; organization of, in European cities, 300-301; in American cities, 301-306, 381.

Party designations, on municipal

ballots, I, 276-277.
Patterson, John H., of Dayton, Ohio, leader in the city manager movement, I, 418 n.

Pauperism. See Poverty.

Paving, street, types of, II, 110-115. Peel, Sir Robert, reorganiser of the London police system, II, 187-188. Peets, Elbert. See Hegemann, Werner.

Penn, William, original planning of Philadelphia by, II, 73.

Pensions, for municipal employees, II. 48-49.

Pepys, Samuel, Diary, I, 68 n; on conditions in London. II, 48-

Pericles, on Athenian ideals, I, 17, Perrier, E. G., La police municipale. II, 205.

Perry, C. A., The Wider Use of the School Plant, II, 345 n; The Man-agement of a City School, 352.

Personnel, administration, public, II, 43. See also Merit system.

Peters, Andrew J., Greater Boston, An Appeal for the Federation of the Metropolitan Cities

Towns, I, 457.

Peterson, A. E. and Edwards, G. W.,

New York as an Eighteenth Century Municipality, I, 86 n, 90 n,

Peterson, Samuel, Democracy and Government, I, 350.

Petition, nomination by, I, 268-269. See also Direct legislation, Re-

Petrograd, before and since the Rus-

sian Revolution, I, 122. Petty, Sir William, Essays on Mankind and Political Arithmetic, I,

122 n, 133 n.
Petty Sessions, Courts of, in Eng-

land, II, 206.

Phelps, Edith M., Selected Articles on the Initiative and Referendum. I, 351

Philadelphia, the beginnings of, I. 84; first charter of, 87; population of, in 1700, 89; charter developments in, 92, 94; party organisation in, 301-302; Gas Ring, 329-330; merit system in, II, 37; original planning of, 173; park facilities in, 127; control of schools in, 331.

Phoenicia, early cities of, I, 6-7. Physique, effect of city life on, I, 135-137.

Pittsburgh, infant mortality in, I, 133.

Plague (bubonic), in mediaeval cities, I, 56; the suppression of, II, 264.

Platoon systems, in the police department, II, 200. See also Twoplatoon system.

Playgrounds, municipal, location and planning of, II, 124; in relation to the schools, 348-349.

Plehn, C. C., Introduction to Public Finance, II, 468; Government Finance in the United States, 491. "Pocket boroughs" in England, L. 72.

Pöhlmann, Robert, Die Uebervölkerung der antiken Grosstädte, I. 16, 35; Aus Altertum und Gegenwart, 22 n, 35.

Police, in Athens, I, 14, in ancient Rome, 27-28; development of, in mediaeval and modern cities, II. 184-187; reform of, in London, 187-188; reorganization of, in American cities, 188-189; state control of, 189-191; municipal supervision of, 191-193; internal organization of, 193-198; appointment and promotion of, 198-199; problems of, 199-205. See also Metropolitan Police District, Police courts.

Police courts, in Europe, II, 206-208; in the United States, 208-210: importance of, 211; present organization of, 211-212; the unification of, 212-214; defects in the work of, 214 218-220. 214-218; specialization of.

Poll taxes, I, 246; II, 455-456.

Pollock, H. M. and Morgan, W. S., Modern Cuies, II, 102 n.

Pollution, of waterways by sewage,

II, 176-177.
Pond, O. L., Treatise on the Law of Public Utilities Operating in Cities and Towns, II, 416.

Poor relief, in ancient cities, I, 14, 29-30; in mediaeval towns, 53; the modern municipal problem of, II, of, 306-312; modern methods 312-315; organization of, 315-326. · See also Social insurance.

Pope, Alexander, Essay on Man, I,

Population, of Athens, I, 10-11; of ancient Rome, 21-22; of mediaeval cities, 55; of French cities in 1801, 66; of English cities in 1685, 71; of American cities in 1790, 82; in -1820, 97; relative densities of, 111.

Porritt, Edward and Annie G., History of the Unreformed House of Commons, I, 239 n, 324 n.

Porter, Charles, Elements of Hy-giene and Public Health, II, 280. Porter, Kirk H., History of Suffrage in the United States, I, 240 n,

Porter, R. P., The Dangers of Municipal Ownership, II, 442. Portugal, the cities of, I, 60.

Portus Itius, in Roman times, I, 36

Pound, Roscoe, "The Administration of Justice in the Modern

City," II, 220.

Poverty, in relation to crime, II, 221; extent and causes of, 306-311; methods of dealing with, 311-326.

Powers, municipal, the interpreta-tion of, I, 199-200; general scope of, 206-207. See also Charters. Pratt, E. E., Industrial Causes of

Congestion in New York City, I,

Pratt. R. W. See Kinnecut, L. P. Prefect, the office of, in France, its origin, I, 65-66; present powers of, 158-159; control of mayors by, 374.

Prefect of Police, in Paris, I, 444, Prefect of the Seine, I, 444. See also

Preferential voting, I, 279-280.

Preuss, Hugo, Die Entwicklung des deutschen Städtewesens, I, 171. Price, G. M., Hygiene and Sanita-tion, II, 280.

Prichard, C. B., "Legal Aspects of Traffic Control," II, 201 n.

Primary, nominations by, general discussion of, I, 262-268.

Prison reform, II, 231-232

Private bill legislation, in England, I, 165-166.

Private property, the regulation of, in the public interest, II, 90-94. Probation system, II, 233.

Procedure, rules of, in city councils, I, 565.

Procter, A. W., Principles of Public Personnel Administration, II, 52. Prohibition. See Liquor traffic.

Promotions, of municipal employees, general considerations effecting, II, 42-43; in the police department, 198; in the fire department, 252-253; in the school

department, 339-340.

Propaganda, the effect of, on public opinion, I, 335.

Property, municipal, its legal status, I, 216-220. See also Private property.

Proportional representation, various systems of, I, 281-283.

Prostitution, in relation to crime, II,

Providence, Rhode Island, absence of deaths from typhoid in (1922), II, 150.

Provisional Orders, in England, I. 166-167.

Prussia, municipal code, of, I, 152; provision for municipal home rule in new constitution of (1920), 164 n; old and new qualifications for voting at municipal elections in, 236-239; direct legislation in, 337 n. See also Germany.

Psychiatry, usefulness of, in the treatment of criminals, II, 235.

Public buildings, the location of, II, 85-87.

Public health, old and new methods of protecting, II, 258-260; fundamental principles of, 260-265; modern methods of caring for, 265-275; administrative organisation in relation to, 275-280.

Public libraries, the administration of, II, 344-345,

Public lighting. See Lighting.

Public opinion, the nature and influence of, I, 333-335.

Public recreation, II, 125-132, 133,

Public service commissions, II, 407-412.

Public utilities, legal status of, I, 218-219, 228; characteristics of, II, 397-400; need for regulation of, 400-402; franchises of, 402-406; administrative supervision over, 408-409; public attitude towards, 409-412; fixing rates for, 412-414; taxation of, 460-464. See also Municipal ownership.

Public works, the construction of, II, 53-69.

Purchasing, centralized, II, 482.

Quarantine, as a public health measure, II, 264-265.

Queen, S. A., Social Work in the Light of History, II, 327.

Quo warranto, write of, in revoking city charters, I, 175.

Radial plan, of street layout, II, 84-85.

Radicalism, in city and country, I, 146-148,

Railroads, effects of, on city growth, I, 97-98; in relation to the city plan, II, 81-82. Rapid transit, the problem of, II,

380-381.

Rawlinson, George, History of Ancient Egypt, I, 18; History of Phoenicia, 18. Ray, P. O., Political Parties and Practical Politics, I, 270, 287, 288, 307, 331. See also Ogg, F. A.

Raymond, W. G., What is Fair: A Study of Some Problems of Public Utility Regulation, II, 415.

Recall, the, in American cities, I, 349-350.

Recreation, commercialized, II, 236, See also Public recreation.

Redlich, Josef, and Hirst, F. W. English Local Government, I, 239 n.

Red Terror, in Paris, I, 65.

Reduction plants, for garbage dis-posal, II, 167-168. Reed, Charles W., on Efficiency

records for the promotion of municipal employees, II, 43 n.

Reform, municipal, in America, the progress of, I, 107.

Registration of voters, work of the registrars, I, 248; relation of party organizations to, 308-309. See also

Voters' lists. Reid, J. S., The Municipalities of the Roman Empire, I, 31 n, 33 n, 35, 36 n.

Removals from office, II, 44. See also Recall.

Reporting, municipal, II, 482-483. Residence, legal, I, 243-244.

Respondent superior, the doctrine of, I, 222.

Revenues, municipal, in Athens, I. 14-15; in Rome, 30-31; in American colonial boroughs, 90; in modern cities, II, 444-468. See also Taxation.

Revolution, the American, effects of,

on cities, I, 91, 151. Revolution, the French, effects of, on European municipal systems, I,

Revolution, the German, effects of, on municipal system, I, 163-164, 238-239.

Richmond, Mary E., Social Diag-nosis, II, 327. Rightor, C. E., The City Manager Plan in Dayton, I, 435, II, 26; "Practical Budget Procedure," 491.

Riis, Jacob, "The Battle with the Slum, II, 286 n; The Children of the Tenement, 286 n; How the Other Half Lives, 286 n.

Rings, in municipal politics, I, 323-

Riordon, W. L., Plunkitt of Tammany Hall, I, 328 n, 331.

Ripley, W. Z. "Urban Problems," Ī, 135 n.

Robertson, John, Housing and the

Public Health, II, 303.
Robertson, J. M., Economics of Progress, I, 149.

Robin, Raymond, Manuel de l'ex-

propriation pour cause d'utilité publique, II, 88 n. Robinson, C. M., Width and Ar-rangement of Streets, II, 72 n, 97, 119; The Improvement of Cities and Towns, 97, 137; Modern Civic Art, 97, 137; City Planning with Special Reference to the Planning of Streets and Lots, 97.

Robinson, L. N., Penology in the United States, II, 238. Robinson, M. R., Public Finance, II,

468.

Robson, W. A., From Patronage to Proficiency in the Public Service, II, 51.

Rogers, F. N. J., Rogers on Elec-

tions, I, 287.
Rogers, Henry Wade, "Municipal Corporations in the Colonies," I, 87 n.

Rogers, Lindsay. See McBain, H. L. Roman empire, provincial cities of the, I, 31-33.

Rome, ancient, location and topography of, 19-20; population of, 21-22, 38; housing problems in, 22-23; streets and payements in, 23-24; water supply of, 25-26, II, 139-140; public sanitation of, I, 26-27; lighting and public safety in, 27-28; public recreation and edu-cation in, 28-29; poor relief in, 29-30; revenues and expenditures of, 30-31; collapse of, 36-37.

Roosevelt, Theodore, on the methods of the municipal boss. I, 323; Autobiography, 325 n. .331.

Rosenau, M. J., Preventive Medicine and Hygiene, II, 264 n, 270 n, 280; The Milk Question, II, 271 n, 280.

Rotterdam, the rise of, I, 61. Rountree, B. S., Poverty: A Study of Town Life, II, 327.

Rowe, L. S., Problems of Municipal Government, I, 18, 149.

Rubbish, the collection and disposal of, II, 164-166.

Ruldiger, C. R., Agencies for the Improvement of Teachers in Service, II, 341 n.

Rural exodus, the, I, 121. Russia, the cities of, in recent years, I. 122.

Sait, E. M., Government and Politics in France, I, 306; Parties and Elections, 307. Sales_taxes, II, 458-460.

San Francisco, metropolitan character of, I, 450; method of choosing the school board in, II, 333 n; municipal street railways of, 395 n.

Sanitation, public, in ancient cities, I, 13, 26; in mediaeval English boroughs, 53; in Paris and London during the seventeenth century, 62-63, 69; modern development of, II, 163; scope and methods of, 164-182; organization of, 182-183.

Satellite cities, I, 118. Scholefield, J., Encyclopedia Local Government Law, I, 171, 287.

School attendance officers, II, 342.

Schools. See Education

Schramm, R., "Detroit Takes Over its Street Railways," II, 395 n.

Scattle, municipal ownership of the street milway system in, II, 395 n. Secrist, Horace, Economic Analysis of the Constitutional Restrictions upon Public Indebtedness in the United States, II, 491.

Sedimentation, in sewage disposal, II. 178.

Segregated budgets, II, 476.

Scientive Service Act, data resulting from the enforcement of, I, 136. Seligman, E. R. A., The Income Tax, II, 453 n, 468; Essays in Taxation, 460 n, 468, 469; The Shifting and Incidence of Taxation, 468; Progressive Taxation in Theory and Practice, 468.

Semple, E. C., American History and Geographic Conditions, I, 97

Separation of powers, the doctrine of, as applied to city government, I, 397.

Septic tanks, in sewage disposal, II, 178 n.

Serial bonds, II, 487-488.

Service-at-cost, on street railways, II, 392-394.

Setbacks, on city streets, II, 109. Sewage, its potentialities of danger, II, 169-170; collection of, 170-175; disposal of, 175-182.

Sewer farms. See Broad irrigation.

Sexes, relative proportion of the, in

cities, I, 126-127.
Seymour, Charles, Electoral Reform in England and Wales, I, 239 n, (and Frary, D. P.), How the World Votes, 1, 40 n, 73 n, 235 n,

253, 287. Shaw, George Bernard, The Common Sense of Municipal Trading, II, 417 n, 426 n, 441

Short ballot, the, I, 277-278.

Shurtleff, Flavel, and Olmsted, F. L., Carrying Out the City Plan, II. 97, 469,

Simon, E. D., The Smokeless City, II, 274 n.

Single tax, the, II, 460.

Sinking funds, municipal, II, 487-488. Sitte, Camillo, Der Städtebau nach

seinen, künstlerischen Grundeätzen, II, 97, 137.
Skehan, J. J., and Conway, J. P., Practical Police Work, II, 205.
Sloane, W. M., Party Organization in the United States, I, 307.
Small Chime County II, 218

Small Claims Courts, II, 218

Smith-Hughes Act (1917), II, 337 n. Smith, R. H., Justice and the Poor, II, 220.

Smoke nuisances, the control of, II, 274-275.

Snedden, David. See Dutton, S. T. Social amelioration, the methods of, II, 306-326.

Social insurance, in Europe and America, II, 316-320.

Socialists, in city government, I, 297. See also Parties.

Southworth, G., and Kramer, S. E., Great Cities of the United States, I. 107.

Spain, the cities of, I, 60. Sparling, S. E., Municipal History of Chicago, I, 108.

Sparta, compared with Athens, I, 9. Special assessments, for street con-struction, II, 117-119; general discussion of, 464-465.

Special charter system, I, 176.

Specifications, for municipal public works, II, 58.

Split contracts, II, 59-60.

Spoils system, genesis of the, I, 96; operation of, in American cities, 11, 32-33

Sprague, Frank J., Growth of Electric Railways, II, 376 m.

St. Gall (Switzerland), origin of municipal unemployment insurance in, II, 321.

St. Louis, features in early charter of, I, 94; state control of police in, II, 190 n.

Städteordnung of 1853 (Prussian Municipal Code), I, 162.

Standardization, of positions and salaries in the municipal service.

State control of cities, general discussion of, I, 150-172; 375-376; police, II, 189-191; corrections, 237; fire prevention, 248-249; public health, 278-279; poor relief, 325-326.

Stebbins, C. M., Tammany Hall; Its History, Organization and Methods, I, 332.

Steffens, Lincoln, The Struggle for Self Government, I, 331; The Shame of the Cities, 332.

Stein, Freiherr von, originator of the Prussian municipal system, I, 159-162.

Stein, M. F., Water Purification Plants and Their Operation, II, 162.

Steinmetz, C. P., Radiation, Light, and Illumination, II, 369.

Steuben, Josef, Der Städtebau, II, 137.

Stevens, Don L., Bibliography of Municipal Utility Regulation and Municipal Ownership, II, 415, 441.

Stevens, Edwin B., "Can We Pay for Education," II, 349 n.

Stipendiary magistrates, in English cities, II, 207.

Storey, Moorfield, The Reform of Legal Procedure, II, 215 n. Story, R. M., The American Mu-nicipal Executive, I, 103 n, 372, 382 n, 395; II, 26.

Strayer, George D., "The School Building Program," II, 348 n; Some Problems of City School Administration, 352; (and Evenden, E. E.), Syllabus of a Course in the Principles of Educational Administration, 352

Streets, in ancient cities, I, 13-14; 23; in mediaeval boroughs, 53; in early modern times, 62, 68; in earlier American cities, 98; legal status of, 218; liability of cities in relation to construction and re-pair of, 228-229; modern planning of, II, 83-85; acquisition of land for, 87-90; general problems in relation to, 99-101; classification of, 102-105; width and arrangement of, 106-109; paving of, 110-115; regulation of traffic in, 116; financing the construction of, 117-119; the lighting of, 357-362.

See Transporta-Street railways.

Strikes, among city employees, II, 47-48; in the police department, 203; on street railways, 387-388.

Strunsky, Simeon, on the city plan of New York, II, 75-76 n.

Stubbs, William, Constitutional History of England, I, 46 n; Select

Charters, I, 47 n, II, 222 n.
Studensky, Paul, Pensions in Public
Employment, II, 49 n; Teachers'
Pensions in the United States, 50 n, 340.

Subventions, as a source of municipal revenue, II, 467.

Subways, the development and cost of, II, 381.

Suffrage, in French cities during the Revolution, I, 64; in English cities prior to 1835, 71-72; in colonial boroughs of America, 88; effect of the American Revolution on, 95; present rules relating to, in France, 235-236; in German cities, 236-239; in English cities, 239-242; in American cities, 242-247. See also Woman suffrage.

Summary Jurisdiction, Courts of, in English cities, II, 207.

Superintendent of schools, in cities, II, 335.

Surveys, as a prelude to city planning, II, 78-79.

Swan, Herbert S., "Industrial Zoning in Practice," II, 93 n.

Tacitus, on the early commerce of London, I, 36.

Tammany Hall, the organisation and methods of, I, 302-305.
Tannenbaum, Frank, Wall Shadows;

'A Study in American Prisons, II, 238.

Taussig, F. W., Principles of Economics, II, 447 n.

Taxation, municipal, in ancient times, I, 14-15; 30-31; the nature of, in modern communities, II, 445-448; types and incidence of, 448-466; for school purposes, II, 349-350; of street railways, 390-392.

Taylor, Graham R., Satellite Cities, I, 118 n, II, 97, 288 n.

Teachers, in city schools, the appointment and promotion of, II, 339-340.

Tenement houses, See Housing, Theatres, fire prevention in, II, 246-

Theisen, W. W., The City Superintendent and the Board of Education, II, 352

Thompson, C. D., Municipal Owner-ship, II, 441; Municipal Electric Light and Power Plants in the United States and Canada, 441,

Thomson, Sir Basil, My Experiences at Scotland Yard, II, 202 n. Three Class System, in Prussian cities, I, 238-239.

Thucydides, on the founding of Athens, I, 9.
Tillson, G. W., Street Paving and Paving Materials, II, 120.

Tocqueville, Alexis de, cited, I, 144.
Todd, A. M., Municipal Ownership,
with a Special Survey of Municipal Gas Plants in America and Europe, II, 442.

Torts, of municipal employees, liability of cities for, I, 222-232.

Toulmin, H. A., The City Manager, I, 435.

Tout, T. F., Mediaeval Town Planning, I, 53 n.
Towler, W. G., Socialism in Local Government, II, 442.

Towner-Sterling Bill, II, 337 n.

Traffic, the regulation of, in city streets, II, 116, 200-201.
Traffic courts, II, 218.
Training schools, for policemen, II, 199; for firemen, 252; for health

officers, 277 n; for teachers, 341. Transfers, on street railways, II, 384-885; of appropriations, 476-477.

Transportation, municipal, in relation to city growth, I, 119; various phases of, II, 871-373; in the city plan, 874-375; evolution of, 875-378; problems of, 378-390; franchises for, 390-391; future of, 391-395; public ownership of, 421; facilities of Europe and America compared, 438 n. Trigg, H. I., Town Planning, Past,

Present and Possible, II, 76 n; 97,

Tuberculosis, as a major health problem, II, 264. Tucker, Rufus S., "Distribution of Men Physically Unfit for Military Service," I, 137 a.

Tucker, T. G., Life in Ancient Athens, I, 11 n, 18; Life in the Roman World of Nero and St. Paul, 34.

Turner, F. J. See Channing, E. Tweed, William M., I, 328-329.

Two-platoon system, in fire depart-

ments, II, 253.
Typhoid, in relation to water supply, II, 149-150; a preventable disease, 262-263.

Typhus, the suppression of, II, 263-264.

Tyre and Sidon, the cities of, I, 6.

Unbalanced bidding, II, 60-61. Unemployment, and municipal public works, II, 67; relation of, to crime, 224; insurance against, 319-320; private methods of dealing

with, 322. Unified municipal courts, II, 211-213. Unit costs, in municipal service, II, 67-68.

United Charities, II, 314.

United States, municipal develop-ment in the, I, 84-107.

United States Public Health Service, II, 279.

Unwin, Raymond, Town Planning in

Practice, II, 97, 137.
Updegraff, H., "The Improvement of Teachers in Service in City Schools," II, 342 n.

Vaccination, as a health measure, II, 267-268

Vandervelde, Emile, L'exode rural,

Van Doren, D. H., Workmen's Compensation and Insurance, II, 308 n, 317 n.

Veto, of special legislation by cities, I, 179-181; of ordinances by mayors, 382-384.

Veiller, Lawrence, Model Housing Law, II, 298 n, 304; Room Over-crowding and the Lodger Evil, 300 n; Housing Reform 303. See also De Forest, Robert W

Vine, J. R. S., English Municipal Institutions, I, 45 n, 239 n.

Vital statistics, nature and importance of, II, 266-267.

Vitruvius, on the water supply of Rome, I, 25; Ten Books of Architecture, 35.

Vocational education, II, 346-347. Voters' lists, how compiled, I, 247-248.

Voting machines, I, 279. Voting, qualifications for. See Suffrage.

Waghorn, Thomas, The Law Relating to the Compulsory Taking of Land . . . by Local Authorities, II, 88 n.

Waite, Col. Henry M., on the qualifications of a city manager, I, 430. Waldman, Louis, Higher Fares or

Public Ownership, II, 396. Wallace, Schuyler T., Pre-Primary Conventions, I, 268 n.

Wallas, Graham, Human Nature in

Politics, I, 350.
Walnut, T. H., Gifford Pinchot and the Direct Primary, I, 270.

Ward system, in electing city councilmen, I, 362-364; in electing members of school boards, II, 332.

Warner, Amos G., American Chari-ties, II, 309 n, 327.
Washington, D. C., the original planning of, II, 74; juvenile of-

fences in, 234. Water rates, various schedules of, II, 156-158.

Water supply, public, at Athens, I, 13; in ancient Rome, 25-26, II, 139-140; in mediaeval towns, I, 53; II, 140; beginnings of modern systems of, in Europe, I, 69; in America, 98; development of, during the nineteenth century, II, 141-142; factors determining the capacity of, 142-145; relation of water waste to, 145-146; sources of, 146-147; essentials of a satisfactory system of, 147-148; treatment plants in connection with, 148-154; financing of, 155-160; ownership of, 160-161; relation of fire protection to, 252-253.

Watkins, G. P., Electrical Rates, II,

365 n.

Watson, Frank D., The Charity Organization Movement in United States, II, 314 n, 327. Wealth, proportion of, in city and rural districts, I, 142.

Webb, Sir Aston, London of the

Future, I, 442 n, 457.

Webb, Sidney and Beatrice, English Local Government, I, 75 n, 78 n, 79 n, (The Manor and the Borough, I, 174 n), 238 n, 239; English Poor Law Policy, II, 326; The Break-Up of the Poor Law, 326;

Public Organization of the Labor Market, 326; Grants in Aid, 445 n. Weber, A. F., Growth of Cities in the Nineteenth Century, I, 82, 120 n, 123, 148.

Wells, H. G., Outline of History, I, 7 n, 13 n; on civic education, 253. Wheel taxes, II, 466-467.

Wheel taxes, II, 466-467.
Whinery, Samuel, Municipal Public Works, II, 63 n, 69.
Whipple, G. G., The Microscopy of Drinking Water, II, 149 n; Typhoid Fever, 149 n; Vital Statistics, 266 n; State Sanitation, 280.
Whitaker, C. H., and others, The Housing Problem in War and Peace, II, 303.
White, Edward F., Treatise on the Law of Negligence of Municipal

Law of Negligence of Municipal Corporations, I, 219 n, 232.

Whitlock, Brand, Forty Years of It, I, 331, 395, II, 491 n; mayor of

Toledo, I, 392.
Whitten, Robert H., "The Zoning of Residence Sections," II, 93 n, The Regulation of Public Service Companies in Great Britain, 415.

Wider use of the school plant, II, See also Gary system, 345.

Neighborhood centers.

Wilcox, Delos F., Government by All the People, I, 351; Municipal Franchises, II, 160 n, 377 n, 396, 402 n, 415; Analysis of the Elec-tric Railway Problem, 372 n, 377 n, 386 n, 388 n, 395, 415, 427 n, 442; Resolved that Municipal Ownership is Desirable, 427 n.

William the Conqueror, grants char-

ter to London, I, 47.
Williams, F. B., The Law of City
Planning, II, 78 n, 89 n, 97, 98,

Williams, J. F. See Ayers, M. Willoughby, W. W., and Rodgers,

Lindsay, Introduction to the Problems of Government, I, 307.

Winckler, A., Wohnäuser der Helle-

nen, I, 16 n.
Wines, F. H., Punishment and Reformation, II, 238.
Winslow, C. E. A. See Kinnecut,

L. P.

Winstanley, Albert. See Hartley, James.

Wisconsin, provisions relating to municipal government in early constitution of, I, 153. Woman suffrage, in Europe, I, 240;

in America, 241-242, 250-251.

Wood, E. E., The Housing of the Unskilled Wage Earner, II, 303.

Wood, F. F. See Keegan, George.
Wood, H. B., Sanitation Practically
Applied, II, 155 n, 171 n, 280.
Wood, Sir Kingsley, Law and Practice with Regard to Housing in
England and Wales, II, 303.

Wood, T. D. See Ayers, M. Wood, T. D. See Ayers, M. Woodburn, J. A., American Politics, Political Parties, and Party Problems, I, 270, 307, 331.

Woodruff, C. R., New Municipal Program, I, 107, 422 n, 435; II,

220.

Woods, Arthur, Policeman and Public, II, 204 n, 205; Crime Prevention, 205, 238.

Joodward, C. M., Compulsory School Attendance, II, 342 n. Woodward, C.

Workmen's compensation, II, 316-

Wren, Sir Christopher, plan for London prepared by, I, 68; II, 73.

Wright, Joseph, Select Bibliography on Municipal Budget-Making, II, 491.

Xenophon, on the population of ancient Athens, I. 10.

Yellow fever, its suppression, II, 263-264.

York, the borough of, in the Middle Ages, I, 53-55.

Young, A. L., The Single Tax Movement in the United States, II, 460 n.

Young, James T., The New American Government and Its Work, I, 350.

Zimmern, A. E., The Greek Commonwealth, I, 18.

Zone fare system, on European street railways, II, 384-386.

Zoning, in cities, II, 91-93.