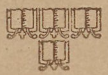
LIST *of* BOOKS



IN THE

WINNIPEG PUBLIC LIBRARY
PROVINCIAL GOVERNMENT LIBRARY
AND
UNIVERSITY OF MANITOBA LIBRARY

The
Association of Professional Engineers
of the Province of Manitoba

LIST OF BOOKS

IN THE

WINNIPEG PUBLIC LIBRARY
PROVINCIAL GOVERNMENT LIBRARY
AND
UNIVERSITY OF MANITOBA LIBRARY



The
Association of Professional Engineers
of the Province of Manitoba

May, 1922

CONTENTS

Page

Books in the Winnipeg Public Library 5

The Property of the Association—are loaned only upon presentation of Membership Card of the Association at the Library.

Books in the Winnipeg Public Library 11

Not the Property of the Association—are loaned in the usual way. Hours : 9 a.m. till 9.30 p.m.

Books in the Provincial Government Library 19

Will be loaned to members of the Association as a special privilege. Hours : 9 a.m. till 9.30 p.m. (Saturdays, 9 a.m. till 12.30 p.m.) throughout the year.

Books in the University of Manitoba Library 23

Are open to members of the Association for reference only, from 9 a.m. till 1 p.m. and 2 p.m. till 5 p.m. (Saturdays, 9 a.m. till 1 p.m.) throughout the year.

BOOKS

in the

WINNIPEG PUBLIC LIBRARY

REFERENCE DEPARTMENT

which are the property of

The Association of Professional Engineers of the Province of Manitoba

AERONAUTICS.

Aeronautical Journal.....*Journal*
Aeronautics (British).....*Journal*
Aeronautical Instruments.....*C. E. Mindenhall*

CHEMICAL.

A Dictionary of Applied Chemistry—5 volumes.
Proceedings (1920) American Electrochemical Society.
Transactions (1921) American Institute of Chemical Engineers.
Chemistry of Pulp and Paper Making..*E. Sutermeister*

DRAINAGE.

National Drainage Magazine.....*Journal*
Canadian Reclamation Service.....*Publications*
Land Drainage.....*Parsons*

ELECTRICAL.

National Electric Safety Code.
American Hydro Electric Practice....*Taylor & Braymer*
Electrical Engineering Papers.....*B. G. Lamme*
Electric Railway Engineering.....*Harding*
Hydro Electric Development in Ontario....*E. B. Biggar*
Specifications and Design of Electrical Machinery *Walker*
Constant Voltage Transmission.....*H. B. Dwight*
Electrical Phenomena and Parallel Circuits *F. E. Ternot*
Electric Traction.....*Dover*

BRIDGE ENGINEERING.

Bridge Engineering, Vols. I. and II. ..... *Waddell*
Economics of Bridge Work ..... *Waddell*
Retaining Walls ..... *Passwell*
Grandes Voutes (Great Arches)—5 Vols *Paul Sijourne*

GENERAL.

Canadian Engineering Standards Association
Publications
Franklin Institute ..... *Journal*
National Fire Protection Association ..... *Transactions*
American Society for Testing Materials ..... *Transactions*
Professional Engineer—Bound Vol., 1921.
The Miami Conservancy District ..... *Reports*
American Association of Ice and Refrigeration
Proceedings
New England Waterworks Association ..... *Transactions*
American Institute of Mining and
Metallurgical Engineering ..... *Transactions*
Engineering Index, 1919-1920.
Financial Engineering ..... *Goldman*
Condensed Description of Manufacture
of Beet Sugar ..... *Frank Murke*
Engineering Valuation of Public Utilities
and Factories ..... *Foster*
The British Cast Iron Research Association
Publications
Housing by Employers in U.S. ..... *U.S. Document*
Structural Defects Influencing the Spread of Fire
Publications
Mineral Productions in Canada ..... *J. McLeish*
Fire Brick and Fire Clay.
Engineering Geology ..... *Ries & Watson*
Glacial Lake Agassig in Manitoba.
The Law of Contracts ..... *Wait*
The Law of Operation Preliminary to
Engineering and Contracting ..... *Wait*
Relativity (Einstein) ..... Trans. by *R. W. Lawson*
Engineering Economics ..... *Fish*
Waterproofing Engineering ..... *Ross*
Modern Underpinning ..... *White & Prentice*
Economics of Contracting ..... *Haner*

Law and Business of Engineering and Contracting *Fowler*
Statistics in Business *Secrish*
The Engineer (British) *Journal*
Monthly Catalogue *U.S. Document*
Financing and Enterprise *Hugh R. Conyngton*
How Business with Foreign Countries is Financed.
Physical Properties of Materials *U.S. Documents*
Workmen's Compensation Legislation in Canada and U.S. *Martin C. Frinke*
Brick *Wm. Carver*
Oil Flow in Pipes *Paper*
A Review of 10 Years' Progress, 1910-1920 *J. W. S. McCullough*
Modern Methods of Measuring the Intensity of Gravity *U.S. Documents*
Timber Depletion and the Answer *W. B. Gruley*
Notes on Small Flow Meters for Air *U.S. Documents*
The Swimming Pool *Jack J. Hinman*
Handbook of Construction Equipment *Dana*
Corrosion and Preservation of Iron and Steel *Cushman & Gardner*
The Engineer *John Hays Hammond*
The Accountants Index.

HIGHWAY.

Public Roads *U.S. Documents*
Highway Research Pertaining to Concrete Roads *Publications*
The Location, Drainage and Grading of Highways *Wilson G. Harger*

HYDRAULIC.

Hydrology *Mead*
Water Power Engineering *Mead*
Hydraulic Turbines *Gelpke & Van Clave*
Regulation of Rivers *Van Ornum*

INDUSTRIAL.

Pulp and Paper *Journal*
Production of Coke and Coal in Canada *J. McLeish, B.A.*

Problems of Industrial Organization.....*D. S. Kimball*
Industrial Housing.....*Knowles*

MECHANICAL.

A Manual of Gas Distribution.....*Publication*
The A.S.M.E. Power Test Codes.
The A.S.M.E. Boiler Code.
Finding and Stopping Waste in Modern Boiler Rooms
Publication
Use of Powdered Fuel Under Steam Boilers
H. D. Savage
Liquid Fuels.....*Moore*
Steam Power Plant Engineering.....*Gibhart*
Producer Gas and Gas Producers.....*S. S. Wyer*
Steam Boiler Economy.....*Kent*
Mechanical Engineering.....*Lineham*
Steam Turbines.....*Nuleim*
Principles and Practices of Lubrication.....*Thompson*
The Society of Automotive Engineers
1919 Transactions
Properties of Steam & Thermo Dynamic
Theory of Turbines.....*H. B. Chandler*
Mechanical Equipment of Buildings *Harding & Willard*
Lubrication and Lubricants.....*Archburt & Deely*

MUNICIPAL.

The Layout of Small Water Mains....*B. H. H. Hellins*
The Activated Sludge Process of Sewage Treatment
J. E. Porter
Purification of Sewage & Water.....*H. W. Clark*
Saskatchewan Water Supply Commission *Documents*
Fifteen Years' Filteration Practice in Indianapolis
H. E. Jordan

RAILWAY.

Railway Maintenance Engineer.....*Journal*
American Railway Engineering Association
Transactions
Train Operation by Signal Indication.....*H. M. Sperry*

REINFORCED CONCRETE.

Concrete Houses.....*Publication*
Effect on Concrete of Immersion in Boiling Water and Oven Drying.....*W. J. Schlick*
Judging the Quality of Portland Cement....*Roy J. Colony*
Reports of British Fire Prevention Committee on Fire Resistance of Concrete and Reinforced Concrete.
Use of Concrete Pipe in Irrigation.....*F. W. Stanley*
American Concrete Institute.....*Transactions*

BOOKS

in the

WINNIPEG PUBLIC LIBRARY

REFERENCE DEPARTMENT

GENERAL.

Applied Mechanics for Beginners ..... *J. Duncan*
Manual of the Principal Instruments Used in American Engineering and Surveying..... *W. & E. Gurley*
Strength of Materials..... *E. R. Maurer*
Pocket Book of Useful Formulae and Memoranda for Civil, Mechanical & Electrical Engineers
G. L. & W. H. Molesworth
Engineering Wonders of the World, 3 Vols. *A. Willimas*
Romance of Modern Engineering..... *A. Williams*

Rifles and Ammunition..... *H. Ommundsen; & E. H. Robinson*
Submarines, Their Mechanism and Operation
F. A. Talbot
Signalling, Part II..... *Training Manual*
Submarines, Mines and Torpedoes in War
C. W. Domville Fife
Mechanics of Engineering, 2 Vols..... *A. J. Dubois*
Ice Formation..... *H. T. Barnes*
Romance of Submarine Engineering..... *T. W. Corbin*

CIVIL.

Manual of Civil Engineering..... *W. J. M. Rankine*
Civil Engineer's Pocket Book..... *J. C. Trautwine*
Cyclopedia of Civil Engineering, 8 Vols *F. E. Turneaure*
Stresses in Structures and the Accompanying Deformations ..... *A. H. Heller*
Deflections and Statically Indeterminate Stresses
C. W. Hudson
A Treatise on Roads and Pavements..... *I. O. Baker*

Highway Engineering as Presented at the Second International Road Congress, Brussels, 1910 *G. H. Blanchard & H. G. Drowne*
Text Book on Highway Engineering *G. H. Blanchard & H. G. Drowne*
Highway Construction....*A. T. Bryne & A. E. Phillips*
Dust Preventatives and Road Binders.....*P. Hubbard*
City Roads and Pavements Suited to Cities of Moderate Size.....*W. P. Hudson*
Modern Asphalt Pavement.....*C. Richardson*
Text Book on Roads and Pavements....*F. P. Spalding*
Street Pavements and Paving Materials....*G. W. Tillson*
Disposal of Municipal Refuse.....*H. de B. Parsons*
Air and Ventilation of Subways.....*G. A. Soper*
Garbage Crematories in America.....*W. M. Venable*

CIVIL CONSTRUCTION.

Handbook of Cost Data for Contractors and Engineers *H. P. Gillette*

CIVIL RAILWAYS.

Railroad Construction....*C. L. Crandall & F. A. Barnes*
Construction and Maintenance of Railway Roadbed and Track.....*F. J. Prior*
Elements of Railroad Engineering.....*W. G. Raymond*
Railroad Construction; Track Work; Railroad Structures; Locomotives.....*Scranton International Correspondence School*
Making of a Great Canadian Railway (G.T.P.) *F. A. Talbot*
Railway Conquest of the World.....*F. A. Talbot*
Railway Wonders of the World, 2 Vols.....*F. A. Talbot*
Railroad Engineering.....*W. L. Webb*
Railroad Construction.....*W. L. Webb*

CIVIL BRIDGES.

Bridge Engineering and Roof Trusses.....*F. O. Dufour*
Theory and Practice of Modern Framed Structures *J. B. Johnson, C. W. Bryan, F. E. Turneaure*
Bridge Design.....*Scranton International Correspondence School*

Notes on Plate Girder Design.....*C. W. Hudson*
Structural Details of Hip and Valley Rafters
C. T. Bishop

CIVIL DRAINAGE.

Georgian Bay Ship Canal (inc. 3 Vols. of Survey Maps) 5 Vols.
Panama and the Canal....*A. B. Hall & C. L. Chester*
Four Centuries of the Panama Canal....*W. F. Johnson*
Panama and the Canal Today.....*Lindsay Forbes*
Panama Canal.....*J. S. Mills*
Egyptian Irrigation, 2 Vols.
W. Willcocks & J. I. Craig
Irrigation of Mesopotamia.....*Sir W. Willcocks*
Plans of the Irrigation of Mesopotamia *Sir W. Willcocks*
General Formulae for the Uniform Flow of Water in Rivers and Other Channels
E. Ganguillet & W. R. Mutter
Rivers and Estuaries or Streams and Tides *W. H. Hunter*
Hydraulics of Rivers, Weirs and Sluices *D. A. Molitor*
High Masonry Dam Design.....*C. E. Morrison*
C. E. Morrison & O. L. Brodie
Design and Construction of Dams, including Masonry, Earth, Sockfill, Timber and Steel Structures
E. Wegmann
Sewerage, the Design, Construction and Maintenance of Sewerage Systems .....*A. P. Folwell*
Domestic Water Supplies for Farms.....*M. L. Fuller*
Water Supply, Sewerage and Plumbing of Modern City Buildings.....*W. P. Gerhard*
Sewers and Drains.....*A. Marston*
Reservoirs for Irrigation, Water Power and Domestic Water Supply.....*W. D. Schuyler*
Drainage; Sewerage; Streets and Highways; Paving; Electrical Railway.....*Scranton International Correspondence School*
Water Supply.....*F. W. Turneaure*
Conveyance and Distribution of Water for Water Supply.....*E. Wegmann*
Final Report of the Commission on the Pollution of Boundary Water Reference
International Joint Commn.

Reports of Consulting Engineers Relating to Official Reference, *re* Lake of the Woods Levels; Tables; Plates. Text, 1916. Final Report, 1917
International Joint Commission

Progress Report of the International Joint Commn. on the Reference by the United States to Canada in *re* the Pollution of Boundary Waters, 1914-1916.
International Joint Commission

115 Experiments on the Carrying Capacity of Large Rivetted and Metal Conduits ....*C. Herschel*

Practical Methods of Sewage Disposal
H. B. Ogden & H. B. Cleveland

ELECTRICAL.

Transmission Line Formulas.....*H. B. Dwight*

Electric Traction and Transmission Engineering
S. Sheldon & E. Housmann

Standard Handbook for Electrical Engineers.

Theoretical Elements of Electrical Engineering
C. P. Steinmetz

Machine Design, Dynamos and Motors.....*Scranton International Correspondence School*

MECHANICAL.

Elementary Text Book on Machine Design *C. L. Griffin*

Mechanics' and Engineers' Pocket-book....*C. H. Haswell*

English and American Lathes.....*J. G. Horner*

Elements of Machine Design *A. S. Kimball & J. H. Barr*

Machinery's Mechanical Library, 10 Vols.

Steam Engines; Applied Mechanics; Steam Boilers
Scranton International Correspondence School

Farm Engines and How to Run Them..*J. H. Stephenson*

Elementary Treatise on the Mechanics of Machinery
J. N. LeConte

Practical Gas and Oil Engine Handbook *L. E. Brookes*

Gas and Oil Engines and Gas Producers
L. S. Marks & S. S. Wyer

The Modern Gas Tractor, Its Construction, Utility, Operation and Repair .....*V. W. Page*

Compressed Air Plant.....*R. Peele*

Centrifugal Pumping Machinery.....*Carl G. de Laval*
Machinery's Handbook for Machine Shops and Drafting-room
Engineering of Shops and Factories.....*H. G. Tyrrell*
Treatise on Belts and Pulleys.....*J. H. Cromwell*
Treatise on Toothed Gearing.....*J. H. Cromwell*
Machine Shop Work.....*F. W. Turner*
Shrapnell Shell Manufacture.....*D. T. Hamilton*

MECHANICAL WATER POWER.

Hydraulic Engineering....*F. E. Turneaure & A. Black*
Water Wheels; Hydraulic Machinery; Water Supply; Irrigation; Electric Lighting.....*Scranton International Correspondence School*
Hydraulic Engineering.....*G. D. Hiscox*

MECHANICAL WATER PLANTS.

Mechanical Engineering of Steam Power Plants *F. R. Hutton*
Elementary Text Book on Steam Engines and Boilers *J. H. Kinealy*
Steam Engine.....*W. B. Snow & W. S. Leland*
Engineer's Descriptive Charts, shewing Development of Steam Boiler, the Steam Engine and the Electrical Generator.....*J. G. Branch*
Steam and Other Engines.....*J. Duncan*
Engine Runner's Catechism.....*R. Grimshaw*
Steam Engine and Turbine.....*R. C. H. Heck*
A.B.C. of the Steam Engine.....*J. P. Lisk*
Steam Turbine Design.....*J. Morrow*
Thermodynamics of the Steam Engine....*C. H. Peabody*
Steam Turbines.....*J. W. Roe*
Locomotive Catechism.....*R. Grimshaw*
Locomotive Engine Running and Management *A. Sinclair*
Locomotive Breakdown Questions Answered and Illustrated.....*W. G. Wallace*
Gas, Gasoline and Oil Engines, including Producer Gas Plants.....*G. D. Hiscox*
Gas Turbine.....*H. H. Suplee*
Up-to-Date New York Air Brake Catechism *R. H. Blackall*

MINING.

A.B.C. of Mining ..... *C. A. Bramble*
Prospecting for Minerals..... *S. H. Cox*
Gold and Silver, comprising an Economic History of Mining in the United States..... *W. R. Crane*
Who's Who Among Manufacturers of Mining Machinery, etc., 1911..... *Engineering and Mining Journal*
Design of Mine Structures..... *M. S. Ketchum*
Prospecting for Gold..... *D. J. Rankin*
Shaft-sinking Under Difficult Conditions..... *J. Riemer*
Romance of Modern Mining..... *A. Williams*
Transactions, Cols. 6-21, 1903-1918
Can. Mining Institute

AERONAUTICS.

Aviation in Canada, 1917-18, being a brief account of the Work of the Royal Air Force, Canada, the Aviation Dept. of the Imperial Munitions Board and Canadian Aeroplanes, Limited.... *A. Sullivan*
Air Craft in Warfare; the Dawn of the Fourth Arm
F. Lanchester
Aeroplanes and Dirigibles of War..... *F. A. Talbot*
The Wonder Book of Aircraft for Boys and Girls
H. Goulding

BOOKS

in the

PROVINCIAL GOVERNMENT LIBRARY

GENERAL.

Modern American Engineering, 5 Vols.
Influence of the Experience of the Siege of Port Arthur upon Construction of Modern Fortresses
A. Von Swartz
Historical Report of Chief Engineer, American Expeditionary Force, 1917-19.
Corps of Engineers—Professional Papers No. 28
The Engineer or Architect as Arbiter between Employer and Contractor.
Dictionary of Arts and Manufactures. 3 Vols.
Meteorological Reports.
American Woods (Samples) ..... *R. B. Haugh*
Economic Geology of Illinois
Report on U.S. Water Transportation, 1909
Mechanics ..... *Jamison*
Prevention of Smoke ..... *Popplewell*
Investigations of Coals of Canada
Salt Deposits of Canada
Value for Rate Making ..... *Fley*
Buildings. Stones ..... *Parks*
U.S. Geological Survey Bulletins, 1883, 6 and 7
Geological Bulletins, 47-465
International Waterways Commission, 1905-15
Connecticut Geological and Natural History Survey
Minnesota Geological and Natural History Survey, 1872-1898

CIVIL.

Georgian Bay Ship Canal Survey
Principles and Practices of Surveying, 2 Vols.
Breed & Hosmer
Gillespie's Surveying ..... *Stanley*

Geological Survey of Canada
Mill Building.....*Tyrrell*
Reinforced Concrete, 3 Vols.....*Hool*
Construction of Roads and Pavements.....*Agg*
Tunnelling.....*Lanchli*
Statistics of Railways in U.S., 1888-1918
Railways in U.S., Parts 2, 4 and 5
Intercorporate Relationships of Railways in U.S., 1906
Eighth Report of Railway Commissioners
Peer's Railroad Manual Appendix and Diary, 1906
English Railways, their Development and Relation to the State
The Railways of Canada, 1870-71
Prevention of Railway Accidents, 1912
South American Railways
The American Railway
National Transcontinental Railway Reports, 1914
Report of Ontario Railway and Municipal Board, 1908
Artistic Bridge Design.....*Tyrrell*
History of Bridge Engineering.....*Tyrrell*
Concrete Bridges and Culverts.....*Tyrrell*
Bridge Engineering, 2 Vols.....*Waddell*
Bridge Construction.....*Fidler*
Design of Steel Bridges.....*Kuntz*
Irrigation and Drainage.....*King*
Water Supply and Irrigation Papers
Pollution of Boundary Waters, 1915
Apportionment of Water, St. Mary's and Milk Rivers 1915
Report of Quebec Streams Commission
Plans of Structures on Irrigation Canada, U.S.A.
Proceedings of National Association of Railway Commissioners, 1907-11.
The Railway and Shipping World, 1898-1905
The Railway Library, 1909-1915
Report of Canadian Pacific Railway, 1877, 1884-1903, 1904-1914
Annual Report of Railroad Commission of Montana, 1907-14
Railway and Marine World, 1905-1920
U.S. Steam Roads Bulletin, 1909-1912
Minutes of Proceedings of the Institute of Civil Engineers, Vols. 52-205

Transactions of the Sanitary Institute, Vol. 10-13
Transactions of the Sanitary Institute of Great Britain, Vol. 7

ELECTRICAL.

Lessons in Electricity.....*Tyndall*
American Telephone Journal

MECHANICAL.

American Mechanical Dictionary, 3 Vols.....*Knight*
Rules for Inspection of Steamboats
Mechanical Equipment .....*Thompson.*
Installation, Care and Operation of 25 K.W. Gasoline Electric Generating Sets.
Water Power Engineering.....*Mead*
Engineering, 1902-1921.
The Canadian Engineer, 1893-1921.
Gas Power Age, 1910-1914.

MINING.

Mining Commissioners Cases .....*T. E. Godson, K.C.*
Annual Report of Bureau of Mines, Ontario
The Menominee Irene Range.....*Walter Nursery*
The Canadian Mining Manual
Royal Ontario Nickel Commission
Principles of Geology.....*Lyell*
Mining.....*Lupton*
The Mining Record, 1897-1912
British Columbia Mining and Engineering Record
Canadian Mining Journal, 1907-1919
The Mining Review, 1889-1906
Mining Iron and Steel, 1896-97.....*Bell*
Bureau of Mines—Bulletins, 1910-20

BOOKS

in the

UNIVERSITY OF MANITOBA LIBRARY

GENERAL.

Engineering Descriptive Geometry
Bartlett & Johnson
Descriptive Geometry.....*L. Gaunce*
Elements of Descriptive Geometry.....*C. E. Ferris*
Elements of Descriptive Geometry.....*C. W. MacCord*
Descriptive Geometry, Six Parts.....*W. C. Slagle*
Elements of Descriptive Geometry.....*J. B. Millar*
Descriptive Geometry.....*W. S. Hall*
Perspective .....*B. J. Lubschez*
Backbone of Perspective.....*T. U. Taylor*
The Draughtsman's Handbook of Plan and Map Drawing.....*G. G. Andre*
Practical Plain Geometry.....*E. S. Burchett*
Practical Plain Geometry .....*E. S. Burchett*
Practical Plain Geometry and Projections (Text)
H. Angel
Practical Plain Geometry and Projections (Plates)
H. Angel
Elements of Descriptive Geometry *Church & Bartlett*
Mathematical Drawing and Measuring Instruments
W. F. Stanley
First Practical Lines in Geometrical Drawing
J. F. L. de Rheims
Practical Plain and Solid Geometry
Harrison & Bazandall
Worked Exam. Questions in Plain Geometrical Drawing.....*F. E. Hulme*
Elementary Course in Perspective.....*S. M. Turrill*
Technic of Mechanical Drawing.....*C. W. Reinhardt*

Freehand Lettering.....*V. T. Wilson*
Isometric Drawing.....*A. P. Jamison*
Grammar of Lettering.....*A. W. Lyons*
Text Book on Shades and Shadows and Perspective
J. E. Hill
Oblique and Isometric Projection.....*J. Watson*
Essentials of Lettering.....*French & Meiklejohn*
Lettering of Working Drawings.....*J. C. L. Fish*
Stereotomy.....*French & Ires*
A Manual of Drawing.....*C. E. Coolidge*
Descriptive Geometry.....*W. C. Marshall*
Descriptive Geometry.....*W. C. Marshall*
Theory and Practice of Lettering.....*C. E. Sherman*
Theoretical and Practical Graphics.....*F. N. Wilson*
Descriptive Geometry (Plates).....*W. S. Hall*
Hydra ulic Tables.....*P. J. Flynn*
Gwilts' Encyclopedia of Architecture.....*W. Papworth*
Elements of Descriptive Geometry.....*A. E. Church*
Elements of Descriptive Geometry.....*A. E. Church*
Kinetic Theory of Engineering.....*D. A. Molitor*
Engineering Shops and Factories.....*H. G. Tyrrell*
Mechanics of Engineering, Vol. II.....*A. G. DuBois*
Notes and Examples in Mechanics.....*I. P. Church*
Engineering Contracts and Specifications..*J. B. Johnson*
Standard Specifications.....*J. C. Ostrup*
Text Book on Method of Least Squares.....*M. Merriman*
Applied Mechanics of Mechanical Engineering
Vol. I., Applied Mechanics .....*A. Jamison*
Applied Mechanics of Mechanical Engineering
Vol. II., Strength of Material.....*A. Jamison*
Applied Mechanics of Mechanical Engineering
Vol. III., Theory of Structures.....*A. Jamison*
Applied Mechanics of Mechanical Engineering
Vol. IV., Hydraulics.....*A. Jamison*
Applied Mechanics of Mechanical Engineering
Vol. V., Theory of Machines and Practical
Machines.....*A. Jamison*
Manual of Applied Mechanics.....*W. J. Rankine*

Mechanics for Engineers ..... *A. Morley*
Elementary Applied Mechanics ..... *Morley & Inchley*
Rational and Applied Mechanics ..... *C. M. Woodward*
Mechanics of Engineering ..... *I. P. Church*
Technical Mechanics ..... *E. R. Maurer*
Encyclopedia of Practical Engineering and Allied Trades ..... *J. Horner*
Index to Engineering News, 1900-1904 and 1905-1909
Engineering Index Annual, 1906-1913
Technical Press Index, Jan., 1908, to June, 1909
Treatise on Non-Metallic Materials of Engineering—
Part I. Materials of Engineering ..... *R. H. Thurston*
Part II. Iron and Steel ..... *R. H. Thurston*
Part III. Alloys, Bases, Bronzes, etc. *R. H. Thurston*
Elements of Mechanics of Materials ..... *C. E. Houghton*
Strength of Materials ..... *Slocum-Hancock*
Strength of Materials ..... *Slocum-Hancock*
Materials of Machines ..... *A. W. Smith*
Text Book of Mechanics ..... *L. A. Martin*
Mechanics of Internal Work in Elastic Bodies and Systems in Equilibrium ..... *I. P. Church*
Properties of British Standard Sections ..... *Engineering*
Properties of British Standard Sections *Engineering Standard Comm.*
Cast Iron. A Record of Original Research ..... *W. J. Keep*
Strength of Materials ..... *J. E. Boyd*
Handbook of Testing ..... *C. A. M. Smith*
Strength of Materials ..... *H. E. Murdock*
Laboratory Manual of Testing Materials *Hatt & Schofield*
Problems in Strength of Materials ..... *W. K. Shepard*
Clays ..... *H. Ries*
American Woods ..... *R. B. Hough*
American Woods ..... *R. B. Hough*
Handbook of Trees of Northern States of Canada *R. B. Hough*
American Society—Testing Materials. Proceedings of 13th Annual Meeting

Theory and Practice of Technical Writing.. *S. C. Earle*
Machine Design, Construction and Drawing *H. J. Spooner*
Examples in Applied Mechanics and Theory of Structures ..... *C. E. Inglis*
The Theory of Machines..... *R. W. Angus*
Kinematics of Machinery..... *J. H. Barr*
Structural Drafting..... *Bishop*
Steel and Its Heat Treatment..... *D. K. Bullens*
The Elements of Graphic Statics *W. Cathcart & J. I. Chaeff*
Notes and Examples in Mechanics..... *I. P. Church*
Mechanics of Engineering ..... *I. P. Church*
Statics and Dynamics ..... *I. P. Church*
Useful Data (4 copies)..... *Corrugated Bar Co.*
Applied Mechanics ..... *J. Duncan*
Handbook for Machine Designers..... *F. A. Halsey*
Laboratory Manual of Bituminous Materials *P. Hubbard*
Lectures delivered at University of Pennsylvania, 1916. Illuminating Engineering Practice
Statics by Algebraic and Graphic Methods *L. J. Johnson*
Engineering Applications of Higher Mathematics, 5 Volumes ..... *V. Karapetoff*
The Mechanics of Machinery ..... *A. B. Kennedy*
Structural Engineering..... *J. E. Kirkham*
The Carbonisation of Coal..... *V. B. Lewes*
The Lighting Art. Its Practice and Possibilities *M. Luckiesh*
Mechanical Engineer's Handbook..... *L. S. Marks*
Materials of Construction..... *A. P. Mills*
Technical Writing..... *Richards*
The Metallography and Heat Treatment of Iron and Steel ..... *A. Sauveur*
Office Administration..... *Schulze*
Compressed Air..... *T. Simons*

Machine Design ..... *A. E. Smith & C. H. Marx*
Standard Specifications ..... *Steel Co. of Canrda*
Radiation, Light and Illumination ..... *C. P. Steinmetz*
Year Book 1919-1920 ..... *U.M.S.U.*
Trans. Canadian Society of Civil Engineers; Bound Volumes; 1 & 2, 3 & 4, 5 & 6, 7 & 8, 9, 10, 11 & 12, 13, 14 & 15, 16, 17, 18 & 19. Unbound Volumes: 21, 22, 20. Catalogue of Library, 1907. Index to Trans. I.-XX.
Engineering News, 1892-1906, 15 Vols., Bound
Index to Engineering News, 1900-1904
Proceedings of The American Rly. Assn, 1903-1906, Vol. IV.
Proceedings Institution of Civil Engineers. Vols CLXXV., CLXXVII., CLXXVIII., CLXXIX.
American Railway Engineering and Maintenance of Way Association Manual and Vols. 2-10
Trans. American Society of Civil Engineers., Vols. 44, 46-48, 54, 59 and 68, 70
Spherical and Practical Astronomy ..... *W. Chauvenet*
Romance of Engineering ..... *H. Frith*
Good Engineering Literature ..... *H. Frith*
Handbook of Engineering Laboratory Practice *R. A. Smart*
Library of Patent Office
Text Book of Theoretical Naval Architecture *E. L. Attwood*
Letters of Farraday and Schoenben *Kahlbaum & Darbishire*
Elements of Machine Design ..... *W. C. Unwin*
Panama ..... *A. Edwards*
Elements of Chemical Engineering ..... *J. Grossman*
Euclid's Elements of Geometry, Books I.-IV., VI., XI. *C. Smith & S. Bryant*
Addresses to Engineering Students, 2nd Ed. *Waddell & Harrington*
Symposium on Scientific Management ..... *Soc. P. E. E.*
Primer of Scientific Management ..... *F. B. Gilbreth*

Parallel Tables of Logs and Squares, 6th Ed. *C. Smoley*
Mathematical Handbook.....*E. P. Seaver*
American Soc. Testing Materials, 1911-1913

CIVIL.

Cambria Steel.....*G. E. Thackray*
Cambria Steel.....*G. E. Thackray*
Pocket Companion on Use of Steel, 1910
Dorman, Long & Co.
Pocket Companion on Use of Steel, 1910
Dorman, Long & Co.
Iron and Steel.....*H. P. Tiemann*
Cost Accounting.....*J. L. Nicholson*
Civil Engineer's Pocket Book.....*A. I. Frye*
Civil Engineer's Pocket Book.....*A. I. Frye*
American Civil Engineer's Pocket Book....*M. Merriman*
Tables for Steel.....*J. A. Auringer*
Civil Engineer's Pocket Book.....*J. C. Trautwine*
The Winslow Tables.....*B. E. Winslow*
Better Tables.....*C. G. Wrentmore*
Force of the Wind.....*H. Chatley*
Graphic Method by Influence Lines.....*Burr & Folk*
Graphics and Analytic Statics.....*R. H. Graham*
Graphic Statics, with Application to Trusses, Beams and Arches.....*J. Sondericker*
Applied Statics
Elements of Graphic Statics.....*L. M. Hoskins*
Statics by Algebraic and Graphic Methods
L. J. Johnson
Cremona's Two Treatises on Graphical Statics
N. Beare
Elementary Graphic Statics.....*W. J. Crawford*
Elementary Principles of Graphic Statics....*E. Hardy*
Application of Graphic and Other Methods to the Design of Structures.....*W. W. F. Pullin*

A Text Book on Graphic Statics ..... *C. W. Malcolm*
General Specifications on Structural Work of Buildings ..... *C. C. Schneide*
General Specifications for Concrete Bridges, 1908-10 ..... *W. J. Watson*
General Specifications for Concrete Bridges as Applied to Building Construction ..... *W. J. Watson*
General Specifications for Foundations ..... *T. Cooper*
Specifications for Street Roadway Pavements *S. Whinery*
Solid Bitumens ..... *S. E. Peckham*
Cement Laboratory Manual ..... *L. A. Waterbury*
Calcareous Cements ..... *Redgrave & Spackmau*
Modern Manufacture of Portland Cement *P. C. H. West*
Cements, Mortars and Concretes ..... *M. S. Falk*
Manual of Field Engineering ..... *Ires & Hills*
Handbook of Testing Materials, Vol. I., Text *A. Martens*
Handbook of Testing Materials, Vol. II., Illustrations *A. Martens*
Civil Engineering ..... *T. C. Fidler*
Manual of Civil Engineering Practice ..... *F. N. Taylor*
American Highway Engineer's Handbook *A. H. Blanchard*
Highway Engineer's Handbook ..... *Harger & Bonny*
Trans. Can. Soc. C.E., 1887-1907, 21 Volumes

CIVIL AND SURVEYING.

Manual of Land Surveying ..... *F. Hodgman*
Plane Surveying ..... *W. G. Raymond*
Surveying Field and Office Manual ..... *Pence & Ketchum*
Field Manual of Surveying Instruments ..... *L. S. Smith*
Manual of Topographical Drawing ..... *L. R. S. Smith*
Topographical Drawing and Sketching ..... *L. L. A. Reed*

Manual of Instructions for Survey of Dominion Land.....*Department of the Interior, Ottawa*

Maps and Specimen Plans to Accompany Manual of Instructions for Survey of Dominion Lands *Dept. of Interior, Ottawa*

Manual of Instructions for Survey of Dominion Land.....*Dept. of Interior, Ottawa*

Supplement to Manual of Instructions for Survey of Dominion Lands.....*Dept. of Interior, Ottawa*

Manual of Instructions for Survey of Dominion Lands 1905.....*Dept. of Interior, Ottawa*

Transit Book.....*John Aird*

Field Book

Field Book.....*J. Bell*

Field Book.....*Party No.3*

Supplement of Manual of Instructions for Survey of Dominion Lands..*Dept. of Interior, Ottawa*

Manual of Instruction for Survey of Dominion Land.....*Dept. of Interior, Ottawa*

Supplement of Manual of Instruction for Survey of Dominion Lands.....*Dept. of Interior, Ottawa*

Topographical Surveying.....*H. M. Wilson*

Gillespie's Surveying, Land Surveying and Chief of Direct Levelling.....*C. Staley*

Gillespie's Surveying, Higher Surveying.....*C. Staley*

Plane Surveying.....*W. G. Ramond*

Treatise on Surveying, Part II....*Middleton & Chadwick*

Engineer's Surveying Instruments.....*I. O. Baker*

Elevation and Stadia Tables.....*A. P. Davies*

Treatise and Surveying, Part I....*Middleton & Chadwick*

Theory and Practise of Surveying.....*J. B. Johnson*

Annual Report of Director of Public Works and Bureau of Surveys, 1911.....*Philadelphia City*

Traverse Tables.....*G. W. Count*

Elements of Hydrographic Surveying.....*G. W. Logan*

Manual of Underground Surveying.....*L. W. Trumbell*

The Plane Table and Its Use in Surveying..*W. E. Lovel l*

Text Book on Geodesy and Least Squares *C. L. Crandall*
Elements of Precise Surveying and Geodesy, 2nd Edition, revised ..... *M. Merriman*
Erection and Inspection of Iron and Steel *C. E. Bernfield*
Structural Design, Vol. I., Elements of S.D. *H. R. Thayer*
Topographic Surveying ..... *Grunsky*
Geodesy ..... *Hosmer*
Handbook for Civil Engineers ..... *Merriman*

CIVIL CONSTRUCTION.

Cement Worker's Handbook ..... *W. H. Baker*
Bethlehem Structural Shapes ..... *Bethlehem Steel C*
Rock Excavation ..... *H. P. Gillette*
New Building Estimator ..... *Wm. Arthur*
Architect's and Builder's Pocket Book ..... *F. E. Kidder*
Architect's and Builder's Pocket Book ..... *F. E. Kidder*
Handbook of Cost Data ..... *H. P. Gillette*
Engineer's Pocket Book of Reinforced Concrete *E. L. Heindenrich*
Hand Book of Cost Data ..... *H. P. Gillette*
Resisting Moment Tables for Eccentric Connections *E. A. Rexford*
Theory of Voussoir Arches ..... *W. Cain*
Foundations, Translated by Vernon Hardcourt *J. Gaudard*
High Masonry Dams ..... *E. S. Gould*
Theory of Steel Concrete Arches and Vaulted Structures ..... *W. Cain*
High Masonry Dam Design *C. E. Morrison & O. L. Brodie*
Design of Walls, Bins and Grain Elevators, 2nd Ed. *M. S. Ketchum*
Design of Walls, Bins and Grain Elevators, 1st Ed. *M. S. Ketchum*

Modern Stonecutting and Masonry ..... *Siebert & Biggin*
Retaining Walls for Earth ..... *R. A. Howe*
Stresses in Masonry ..... *Prof. H. Chatley*
Estimating Frame and Brick Houses ..... *G. T. Hodgson*
Foundations and Foundation Walls ..*Powell & Hauman*
Allowable Pressures on Deep Foundations *E. L. Corthell*
Ordinary Foundations ..... *C. E. Fowler*
Foundations and Machinery Fixing..... *F. Davies*
Treatise on Masonry Construction..... *I. O. Baker*
Practical Treatise on Foundations..... *W. M. Patton*
Coast Erosion and Protection..... *E. R. Matthews*
Theory of Structures and Strength of Materials
Merriman & Jacoby
Design of Structures..... *S. Anglin*
Constructional Steel Work ..... *A. W. Farnsworth*
Theory of Structures..... *C. M. Spofford*
Designing and Detailing of Simple Steel Structures, 2nd Edition ..... *C. T. Morris*
Design of Steel Mill Buildings..... *M. S. Ketchum*
Tables in Stresses in Roof Trusses..... *H. C. Hearne*
Designing and Detailing of Simple Steel Structures, 3rd Edition..... *C. T. Morris*
Estimating the Cost of Buildings..... *A. W. Joslin*
Introduction to Design of Beams..... *W. H. Atherton*
Planning and Construction of High Office Buildings ..... *Wm. Birkmire*
Treatise on Design and Construction of Mill Buildings ..... *H. G. Tyrrell*
Analysis of Elastic Arches..... *J. W. Balet*
Symmetrical Masonry Arches ..... *M. A. How*
Symmetrical Masonry Arches ..... *M. A. How*
Trusses and Arches, Part I., Roof Trusses *C. E. Greene*
Trusses and Arches, Part III., Arches..... *C. E. Greene*
Theory and Practice of Modern Framed Structures
Johnson, Bryan & Turncoure
Framed Structures and Girders. Part I, Stresses
E. Marburg

Elements of Structures ..... *G. A. Hool*
Theory of Structures ..... *C. M. Spofford*
Steel Construction ..... *E. A. Tucker*
Strength of Beams, Floors and Roofs ..... *F. E. Kidder*
Structural Engineering ..... *Husband & Horby*
Design of Steel Mill Buildings ..... *M. S. Ketchum*
Structural Details of Hip & Valley Rafters
C. T. Bishop
Cement and Concrete, 2nd Ed. ..... *L. C. Sabin*
Concrete Costs ..... *F. W. Taylor & S. E. Thompson*
Concise Treatise on Reinforced Concrete ..... *C. F. Marse*
Theory and Design of Reinforced Concrete Arches
A. Reuterdahl
Concrete Steel Construction ..... *E. Morsche*
Reinforced Concrete Buildings
E. K. Ransome & A. Saurbrey
Principles of Reinforced Concrete Construction
Turneaure & Maurer
Concrete Construction. Methods of Construction
Gillette & Hill
Concrete Block Manufacture ..... *H. H. Rice*
Reinforced Concrete ..... *J. P. Brooks*
General Specifications for Concrete Work ..... *W. J. Watson*
Theory and Design of Reinforced Concrete Arches
A. Reuterdahl
Reinforced Concrete ..... *E. McCullough*
Cements, Mortars and Concretes ..... *M. S. Falk*
Popular Handbook for Cement and Concrete Users
Lewis & Chandler
Treatise on Concrete, Plain and Reinforced
Taylor & Thompson
Concrete and Reinforced Concrete Construction
H. A. Reid
Reinforced Concrete ..... *A. W. Buel*
Diagram for Designing Reinforced Concrete Structures ..... *G. F. Dodge*
Stones for Building and Decorating ..... *J. P. Merrill*

Street Pavements and Paving Materials....*G. W. Tillson*
Dustless Roads.....*J. W. Smith*
Modern Road Construction.....*F. Wood*
Roads and Pavements.....*I. O. Baker*
Dust Preventatives and Road Binders.....*P. Hubbard*
Engineering Work in Towns and Cities....*E. McCullough*
Road Making and Maintenance.....*T. Aiken*
City Roads and Pavements .....*J. P. Judson*
Asphalts .....*T. H. Boorman*
Text Book on Highway Engineering
Blanchard & Drowne
Theory and Practice of Modern Framed Structures
Johnson & Turneaure
Fireproof Construction .....*Fitzpatrick & Condon*
A Practical Treatise on Sub-Aqueous Foundations
C. E. Fowler
Stresses in Structures.....*A. H. Heller*
Documents Governing the Construction of a Bridge.....*E. E. Howard*
Plain and Reinforced Concrete Arches.....*J. Melan*
Pennsylvania-Delaware River Bridge and Tunnel Commission Report
Stresses in Structural Steel Angles.....*L. A. Waterbury*
Strength and Elasticity of Structural Members
R. J. Woods
The Strains in Framed Structures.....*A. J. DuBois*

CIVIL RAILWAYS.

Spring Tables.....*Morrison*
Spiral Tables.....*J. G. Sullivan*
The Railroad Spiral.....*W. H. Searles*
Railroad Construction.....*W. L. Webb*
Practical Railway Spiral.....*L. C. Jordan*
Handbook of Railroad Expenses.....*J. S. Eaton*
The Transition Curve.....*C. R. Crandall*
Economics of Railroad Location.....*M. L. Byers*

Railroad Location, Surveys and Estimates.....*F. Lavis*
Economics of Railroad Construction.....*W. L. Webb*
Field Practice of Railroad Location.....*W. Beahan*
Freight Terminals and Trains.....*J. A. Droege*
Railway Location.....*A. M. Wellington*
Railroad Engineering.....*W. G. Raymond*
Manual for Resident Engineers .....*Moliter & Beard*
Railway Track and Track Work.....*E. E. R. Tratman*
Railroad Construction.....*Crandall & Barnes*
Railway, Mining, Municipal and Contractor's Supplies.....*Mussens, Ltd.*
On the "White Pass" Pay Roll.....*H. Graves*
The Transition Curve.....*C. L. Crandall*
Freight, Terminals and Trains.....*J. A. Droege*
Handbook of Railroad Expenses.....*J. S. Eaton*

CIVIL BRIDGES.

A Graphical Method for Swing Bridges.....*B. F. LaRue*
Skew Arches.....*E. W. Hyde*
Theory and Calculation of Cantilever Bridges.....*R. M. Wilcox*
Theory of Arches.....*W. Allen*
Treatise on Theory of Construction of Helidoidal Oblique Arches.....*J. L. Culley*
Theory and Calculation of Cantilever Bridges.....*R. M. Wilcox*
Foundations of Bridges and Buildings *Jacoby & Davis*
Suspension Bridges, Arch Ribs and Cantilevers.....*W. H. Burr*
Secondary Stresses in Bridge Trusses.....*C. R. Grimm*
Types and Details of Bridge Construction, Part I.....*F. W. Skinner*
A Practical Treatise on Bridge Construction.....*T. C. Fidler*
Roofs and Bridges, Parts II and VI.....*Merriman & Jacoby*
Design of Plate Girders.....*L. E. Moore*

The Elizabethan Bridge.....*H. G. Tyrrell*
Melan's Theory of Arches and Suspension Bridges.....*D. B. Steinman*
Steel Bridge Designing.....*M. B. Wells*
Trusses and Arches, Part II. Bridge Trusses.....*C. E. Greene*
Design of Highway Bridges.....*M. Ketchum*
Roofs and Bridges, Part IV. Higher Structures.....*Merriman & Jacoby*
Design and Construction of Mettallic Bridges.....*Burr & Falk*
Design of Draw Spans, in 2 Parts
Types and Details of Bridge Construction Part II.....*F. W. Skinner*
Types and Details of Bridge Construction, Part III.....*F. W. Skinner*
Design of Typical Steel Railway Bridges.....*W. C. Thompso*
The Forth Bridge
General Specifications for Highway Bridge Superstructure.....*Osborne Eng. Co.*
General Specifications for Bridges.....*E. Thatcher*
Concrete Bridges and Culverts.....*H. G. Tyrrel*
De Pontibus.....*J. A. L. Waddell*
Bridge Engineering (2 Vols.).....*J. A. L. Waddell*
Quebec Bridge.

CIVIL DRAINAGE.

Sewerage Engineer's Notebook.....*A. Wolheim*
Flow of Waters in Open Channels, etc.....*P. J. Flynn*
The Improvement of Rivers.....*Thomas & Watt*
Cole Pitometer System
Treatise on Hydraulics.....*W. C. Unwin*
Treatise on Hydraulics.....*M. Merriman*
Treatise on Hydraulics.....*Hughes & Safford*
Graphical Solution of Hydraulic Problems..*F. C. Coffin*

River Discharge.....*Hoyt & Grover*
Notes on Hydrology.....*D. W. Mead*
Text Book on Hydraulics.....*G. E. Russell*
Sanitary Engineering, Vol. I.
Sewerage.....*Moore & Silcock*
Sanitary Engineering, Vol. II.
Land Drainage.....*Moore & Silcock*
Sewerage.....*A. P. Folwell*
Sewerage Systems.....*H. S. Watson*
Purification of Sewage.....*S. Barwise*
Sewage Sludge.....*Elsner, Spillner & Allan*
British Sewage Works.....*M. N. Baker*
Design, Construction and Maintenance of
Sewage Disposal Works.....*H. P. Raikes*
Sewer Construction.....*H. N. Ogden*
Methods and Devices for Bacterial Treatment
of Sewage.....*W. M. Venables*
Main Drainage of Towns.....*F. N. Taylor*
Sewage Disposal.....*Kinnicut, Winslow & Pratt*
Sewer Design, 1st Edition.....*H. N. Ogden*
Sewer Design, 2nd Edition.....*H. N. Ogden*
Modern Methods of Sewage
Purification.....*G. E. Kershaw*
Modern Destructor Practice.....*W. F. Goodrich*
Principles of Sewage Treatment.....*Dunbar & Calvert*
Practical Sanitary Engineering.....*F. Wood*
Practical Sanitary Engineering.....*F. Wood*
Practical Sanitation.....*G. Reid*
Lessons on Sanitation.....*J. W. Harrison*
Separate System of Sewage.....*Stanley & Pierson*
Water Filteration Works.....*J. H. Fuertes*
Water Works for Small Cities and Towns.....*J. Goodell*
Water Supply.....*R. E. Middleton*
Public Water Supplies.....*Turneaure & Russell*
Public Water Supplies.....*Turneaure & Russell*
Towers and Tanks for Water Works.....*J. N. Hazlehurst*

Some Details of Water Works Construction.....*W. R. Billings*
Modern Methods of Water Purification.....*Don & Chisholm*
Louisville—Proceedings 32nd. Annual Convention.....*American Water Works Association*
Water Works Management and Maintenance.....*Hubbard & Kierstead*
Water Works Management and Maintenance.....*Hubbard & Kierstead*
Irrigation.....*H. Brown*
Engineering Works in Towns and Cities *E. McCullough*
Water and Public Health.....*J. H. Fuertes*
Filteration of Public Water Supplies.....*A. Hazen*
Sanitary Engineering.....*L. F. Vernon-Harvourt*
Practical Treatise of Hydraulics and W. S. Engineering.....*J. T. Fanning*
Sewage.....*A. P. Folwell*
Sewage Disposal.....*Kinnicut, Winslow & Pratt*
Sewage Disposal.....*G. W. Fuller*
Clean Water and How to get it.....*A. Hazen*
Reservoirs for Irrigation, etc.....*J. D. Schuyler*
Water Softening and Purification.....*H. Collett*
Water Supply Engineering.....*A. P. Folwell*
Sanitary Engineering for Buildings.....*W. P. Gerhgrd*
Irrigation Practice and Engineering, 3 Vols.....*B .A. Etcheverry*
Hydrology.....*Mead*
The Drainage Acts—Ontario.....*F. B. Proctor*
Hydraulic Tables.....*Williams & Hazen*
Hydraulics.....*G. E. Russell*

ELECTRICAL.

Standard Handbook for Electrical Engineers
Electric Furnace, Its Evolution, Theory and Practice.....*A. Stansfield*

Automatic Block Signals ..... *R. Scott*
Electrical Engineering ..... *C. V. Christie*
Electric Lighting ..... *O. J. Ferguson*

MECHANICAL.

Index of Goods Manufactured in Iron Age, 1909 ..... *Iron Age Directory*
Mechanical Engineer's Pocket Book ..... *Wm. Kent*
A Manual of Engineering Drawing ..... *T. E. French*
Elements of Mechanical Drawing, 2 Parts ..... *A. A. Titsworth*
Mechanical Drawing, 2 Vols. ..... *F. E. Giesecke*
Universal Dictionary of Mechanical Drawing ..... *G. H. Follows*
Foundry Practice ..... *G. H. Palmer*
Composition and Heat Treatment of Steel ..... *E. F. Lake*
Dynamometers and the Measurement of Power ..... *J. J. Fletcher*
Air Compression and Transmission ..... *H. G. Thorkelson*
Drill Work ..... *R. R. Sanderson*
Internal Combustion in Engines ..... *R. L. Streeter*
A Treatise on Friction and Lost Work in Machinery and Millwork ..... *R. H. Thurston*

MECHANICAL POWER.

Handbook of Engine and Boiler Trials ..... *R. H. Thurston*
Engineering of Power Plants ..... *Fernald & Orrok*
Steam Power Plants ..... *H. C. Mayer*

MECHANICAL HYDRAULICS.

Hydraulic Power Engineering ..... *C. C. Marks*
Centrifugal Pumps ..... *Lowenstein & Crissey*
Pumps and Hydraulics, Part I ..... *W. Rogers*
Pumps and Hydraulics, Part II ..... *W. Rogers*
Pumping Engines for Water Works ..... *C. H. Hague*

Hydraulic Power and Hydraulic Machinery.....*H. Robinson*
Principles, Construction and Application of Pumping Machinery for Water Works.. *C. H. Hague*
Hydraulic Power and Hydraulic Machinery.....*H. Robinson*
Principles, Construction and Application of Pumping Machinery.....*H. Davey*
Design and Construction of Hydro Electric Plants.....*R. C. Beardsley*
Hydro Electric Practice .....*H. A. E. C. Von Schon*
Hydro Electric Developments and Engineering *F. Koester*
Water Power.....*J. P. Frizell*
Water Power.....*J. P. Frizell*
Hydraulic Motors and Turbines.....*G. R. Bodmer*
Development of Electrical Distribution of Water Power.....*L. Lyndon*
Centrifugal Pumps, Turbines and Water Motors.....*C. H. Innes*
Hydraulic Turbines.....*V. Gelpe & Van Cleve*
Hydraulic Engineering.....*Turneaure & Black*
Principles of Water Works Engineering *Tudsbrey & Brightmore*
Industrial Uses of Water.....*H. de la Coux*
Water Power Engineering.....*P. W. Mead*
Hydraulics for Engineers and Engineering Students.....*F. C. Lea*
Hydraulic Turbines.....*R. L. Dougherty*
Hydraulic Engineering.....*G. D. Hiscox*
Hydraulic Motors and Turbines..... *G. A. Bodmer*

AERONAUTICS,

Flying Machines To-day.....*W. D. Ennis*

MAGAZINES AND BULLETINS.

Aerial Age.
Better Roads and Streets.

Canadian Engineer.
Canadian Machinery.
Canadian Municipal. Journal
Canadian Railway and Marine World.
Clarkson Bulletin.
Concrete and Constructional Engineering.
Conservation (Canada).
Contract Record
Electrical News
Electrical Review.
Electrical World.
Electrical Journal.
Electrical Railway Journal.
Electrician.
Engineering.
Engineering and Contracting.
Engineering Index.
Engineering News Record.
Financial Post.
General Electric Review.
Industrial Management.
Iron Age.
Journal of the American Institute of Electrical Engineer
Journal of the Engineers Club of St. Louis.
Journal of the Engineering Institute of Canada.
Journal of the Institution of Electrical Engineers.
Journal of the New England Water Works Association.
Journal of the Royal Institute of British Architects
Journal of the Western Society of Engineers.
Le Genie Civil.
Lefax Monthly.
Lefax Data Sheets (Civil, Electrical. Mechanical, Mining)
Machinery.
Mechanical Engineering.
Miami Conservancy Bulletin.

Military Engineer.
Motor Age.
Municipal Engineering.
Popular Mechanics.
Power.
Power Plant Engineering.
Proceedings of the Institute of Civil Engineers.(Vol. 204, 1916-17 last received.)
Proceedings of the Institute of Radio Engineers.
Railway Age.
Revue Generale de l'Electricite.
Scientific American and Supplement.
Successful Methods.
Telephone Engineer.
Times Engineering Supplement.
Trans. American Society of Civil Engineers.
Trans. Illuminating Engineering Society.
Contractors Atlas.
The Concrete Builder.
Concrete in Architecture and Engineering.
Concrete Highway Magazine.
Contractors Atlas.
Atlas Almanac.

BOUND VOLUMES.

Canadian Engineer.—Volumes 35 & 36.
Canadian Railway and Marine World.(1918.)
Contract Record.(1918) Vol. 32.
Electrician. (1918) Vol. 82.
Electric Railway Journal. (1918) Vols. 52 & 53.
Electrical News. (1918) Vol. 27.
Electrical World. (1918) Vol. 73.
Electrical Review. (1918) Vol. 73.
Engineering. (1918) Vol. CVII.
Engineering News Record. (1918) Vols. 81 82.

Engineering and Contracting. (1918) Vols. 50 51.
General Electric Review. (1918) Vol. 21.
Municipal and County Engineering. (1918) Vols. 54. 55 & 56.
Revue Generale L'Electricite. (1918) Vol. 4 & 5
Telephone Engineer. (1918) Vol. 20.
Canadian Engineer.—Vol. 37.
Canadian Municipal Journal.—Vols. 14 & 15.
Concrete and Constructional Engineering.—Vols. 13 & 14
Electrical Review.—Vols. 74 & 75.
Electrician.—Vol. 83.
Electric Journal.—Vols. 15 & 16.
Electrical News.—Vol. 28.
Electrical World.—Vol. LXXIV.
Electric Railway Journal.—Vol. 54.
Engineering.—Vols. 106 & 108.
Engineering News-Record.—Vol. 83.
General Electric Review.—Vol. 22.
Municipal and County Engineering.—Vol. LVII.
Railway Age.—Vols. 65 & 67.
Telephone Engineer.—Vol. 21.
Transactions Canadian Society of Civil Engineers; Bound Volumes: 1 & 2; 3 & 4; 5 & 6; 7 & 8; 9; 10; 11 & 12; 13; 14 & 15; 16; 17; 18 & 19. Unbound Volumes: 21; 22; 20. Catalogue of Library, 1907. Index to Transactions I-XX.
Engineering News.(1892-1906.)—15 Vols. Bound.
Index to Engineering News. (1900-1904)
Proceedings Institution of Civil Engineers.—Vols. CLXXV; CLXXVII, CLXXVIII; CLXXIX.
Proceedings of American Railway Association. (1903-1906) Vol. IV.
American Railway Engineering and Maintenance of Way Association Manual.—Vols. 2-10.
Transactions American Society of Civil Engineers. Vols. 44, 46-48, 54, 59 & 68, 70.

PAMPHLETS, REPORTS, ETC.

C. W. Mayers (*Aberthaw Const. Co.*) Estimating Concrete Buildings.

Abrams (*Duff A.*) Effect of Time of Mixing on the Strength of Cement.

Atlas Portland Cement Association. Atlas Almanac, Contractors' Atlas, Concrete on the Farm, Recommended Practice for Concrete Road and Street Construction, Information for Home Builders, Color Tones in Stucco, Cast Stone, War Memorials, Non-Staining Mortar for Pointing and Setting and Backing.

Bureau of Standards. Technologis Papers 58, 92, 93. Scientific Papers, 356, 358, 361, 368, 370. Circulars, 33, 95.

Colorado State Agricultural College. Bulletin 83. Alkaline Effects of Water on Concrete.

Commission of Conservation, Canada. Town Planning and Conservation of Life Report of 10th Annual Meeting. Pulverized Fuel, Its Use and Possibilities. Power in Alberta, Water, Coal and Natural Gas, National Conference on Conservation Game, Fur-bearing Animals and other Wild Life. Water Powers of B. C. Forestry Situation in Quebec. Dictionary of Altitudes in Canada. Reproduction of Commercial Species in South Coast of B. C. Conservation of Coal in Canada.

Department of the Interior, Canada. Report of the Director of Forestry for year, 1918.

Department of the Interior, Canada. (*Reclamation Service.*) Reports on Irrigation Surveys and Inspections (1918-1919) Water Supply Bulletins (9, 10).

Department of Mines, Geological Survey, Canada. Preliminary Report on the Economic Geology of Hazelton District, B. C. Amisk-Athapauskow Lake District. Museum Bulletin (29) The Dis-

covery of a Portage Fauna in the MacKenzie River Valley. The MacKenzie River Rasin. Road Materials in the vicinity of Regina, Sask. Geology in the Disturbed Belt of Southwestern Alberta. Geology and Mineral Deposits of a part of Amherst Township, Quebec. Investigations in the Gas and Oil Field of Alberta, Saskatchewan and Manitoba.

Greater Winnipeg Water District. 2.—Report on the Aqueduct of the G.W.W.D. by a Special Board of Consulting Engineers (Ruttan, Sullivan and Lea). 3.—Act to incorporate G.W.W.D. 4.—Report on a Water Supply from Shoal Lake for the G.W.W.D. by Board of Consulting Engineers (Hering, Stearns, Fuertes). 5.—Auditors' Report and Financial Statements, 1915. 6.—Aqueduct Construction Scheme, what it is, what it means.

Grinell Co. Automatic Sprinkler Bulletins.

Keuffel & Esser Co. Solar Ephemeris, 1920.

Montana Agricultural College. Bulletin 81, Circular 8, "Alkaline Effects of Water on Concrete."

Munition Resources Commission, Canada. Final Report of work of Commission, November, 1915, March, 1919.

Nova Scotia, Dept. of Public Works and Mines. Annual Report on the Mines, 1919.

Portland Cement Association. Concrete Highway Magazine. Concrete Builder. Concrete in Architecture and Engineering. Concrete Swimming and Wading Pools; how to build them.

Publicity Commissioner, Northern Manitoba. Resources and Characteristics of Northern Manitoba. Mining and Mineral Prospects in Northern Manitoba. The Land of the Lobstick. The New Manitoba District.

Singer Sewing Machine Co. Mechanics of the Sewing Machine.

S. Morgan Smith Co. Hydraulic Turbine Installations

Structural Materials Research Laboratory, Lewis Institute (Chicago). Bulletins 1-6.

U.S. Coast & Geodetic Survey. Annual Report of the Superintendent, 1919. *Terrestial Magnetism* Results of Magnetic Observations made by the U.S. Coast and Geodetic Survey, 1919. Alaska Magnetic Tables and Magnetic Charts for 1920.

U.S. Geological Survey. Bulletin 701, Goethermal Data of the U.S. Water Supply Paper 450-C. Mineral Production of the U.S. in 1917. Barytes and Barium Products in 1918. Cadmium in 1919. Cobalt, Molydenum, Tantalum, Titanium, Radium, Uranium and Vanadium in 1918. Fieldspar in 1918. Line in 1918. Nickel in 1918.

U.S. Department of Agriculture. Bulletin 376, Flow of Water in Wood Stave Pipe. Bulletin 386, Public Road Mileage and Revenues in the Middle Atlantic States, 1914. Bulletin 854, The Flow of Water in Drain Tile. Bulletin 831, Spillways for Reservoirs and Canals. Bulletin 1131, Tile Trenching Machinery.

University of Illinois Bulletin. Nos. 111-117.

Valve World.

Winnipeg. Municipal Manual

Prof. Finlayson. University of Illinois Bulletins 29. 64, 84, 86, 107, 108, 115, 117. U.S. Geological Survey (Water Supply and Irrigation Papers), 40, 44, 45, 56, 261-272.

