

Structural Engineering – Suggested Text Listings - 2007

07-Str-A1, Elementary Structural Analysis

Aslam Kassimali, Structural Analysis PWS Publishers Latest Edition ISBN # 0534950469

07-Str-A2, Elementary Structural Design

Handbook of Steel Construction, Current Edition, Canadian Institute of Steel Construction

Concrete Design Handbook, Current Edition, Canadian Portland Cement Association

Wood Design Manual, Current Edition, Canadian Wood Council, Ottawa Tel: 613-247-7077

07-Str-A3, Geotechnical Materials and Analysis

R.F. Craig, Soil Mechanics, 5th Edition, Chapman Hall

B.J. Das, Principles of Geotechnical Engineering, 4th Edition, PWS-Kent

07-Str-A4, Advanced Structural Analysis

Ghali & A.M. Neville, Structural Analysis, Chapman & Hall, 4th Edition, John Wiley & Sons, New York, 1998 (edited by Garas & Virdi).

07-Str-A5, Advanced Structural Design

G.L. Kulak & M.I. Gilmore, Limit States Design in Structural Steel, 6th Edition, Canadian Institute of Steel Construction, 1998

Michel Bruneau, Chia-Ming Uang, Andrew Stuart Whittaker, Ductile Design of Steel Structures – McGraw Hill Co. 1998

Edward G. Nawy, Prestressed Concrete: A Fundamental Approach, 5th edition, Prentice Hall, 2005

C.K. Wang et al, Reinforced Concrete Design, 6th Edition, Harper and Row, 1998

Handbook of Steel Construction, 7th Edition, Canadian Institute of Steel Construction, 1997

07-Str-A6-3, Earthquake Engineering

Dynamics of structures: theory and applications to earthquake engineering, by Anil K. Chopra. Englewood Cliffs, N.J., Prentice Hall, 1995.

Concrete Design Handbook

Steel Design Handbook

07-Str-B1, Geotechnical Design

B.M. Das, Principles of Geotechnical Engineering 4th edition ITP Nelson 1998 ISBN # 0-534-95179-1 (1-800-268-2222)

B.M. Das, Principles of Foundation Engineering 3rd Edition ITP Nelson 1995 ISBN # 0-534-20646-8 (1-800-268-2222)

R.F. Craig, Soil Mechanics, 5th or 6th Edition, Van Nostrand Reinhold (U.K.) Co. Ltd. Nelson Canada - ISBN # 0-412-39590-8 note both out of print

E.A. McBean, F.A. Rovers, G.J. Farquhar, Solid Waste Landfill Engineering and Design Prentice Hall PTR, 1995, ISBN 0-13-079187-3, Chapter 9, Chapter 10

R.M. Koerner, Designing with Geosynthetics, 3rd edition, Prentice Hall, 1994, ISBN 0-13-847823-6, Section 2.8 and chapters 5 and 6.

07-Str-B2, Management of Construction

Donald S. Barrie and Boyd C. Paulson Jr., Professional Construction Management, McGraw-Hill, 1991, ISBN # 0070038899

Ontario Health and Safety Act, Ontario Regulation 213/91 (Construction Projects), Queen's Printing of Ontario, May 10, 1991. The provincial legislation is quite similar in all provinces. The candidate should obtain the Health and Safety Act of their province for study.

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07-Str-B3, Applications of Finite Elements

R.D. Cook, D.S. Malkus, & M.E. Plasha, Concepts and Applications of Element Analysis, 3rd Ed., John Wiley & Sons, ISBN # 0-471-84788-7

07-Str-B5, Foundation Engineering

Braja Das, Principles of Foundation Engineering, 6th Edition, Thomson, ISBN-13: 978-0-495-08246-0

07-Str-B6 Building Engineering and Services

Building Services Engineering by David V Chadderton, 6th edition, published by Routledge

07-Str-B8, Architectural Design and Engineering

A Handbook on Low Energy Buildings and District Energy Systems by Harvey... **Publisher:** Routledge (Aug. 1 2006)

ISBN-10: 1844072436, **ISBN-13:** 978-1844072439

Building Science for Building Enclosures by Straube and Burnett.

alternatively: High Performance Building Envelopes, also by John Straube, can be ordered from

<https://building-science.com/bookstore/books/high-performance-enclosures>

Designing the Exterior Wall: An Architectural Guide to the Vertical Envelope, by Linda Brock (2005, Wiley)

07-Str-B10, Earthquake Engineering

Dynamics of structures: theory and applications to earthquake engineering, by Anil K. Chopra. Englewood Cliffs, N.J., Prentice Hall, 1995.

Concrete Design Handbook

Steel Design Handbook

07-Str-B11, Hydraulic Engineering

R.L. Daugherty, J.B. Franzini and E.J. Finnermore, Fluid Mechanics with Engineering Applications, 8th Edition, McGraw-Hill, 1985 (omit chapters 5, 9, 16, and 17)

A suitable alternate text is:

V.L. Streeter, E.B. Wylie, Fluid Mechanics, SI Edition, McGraw-Hill, 1981 (omit chapter 6 on compressible flow) Note there may be a more recent version of this text if there is please use the latest edition.

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