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5. Publications

Rheology and Soil Mechanics

by M.J. Keedwell

In order to find reasonable solutions to practical problems, «traditional» soil mechanics has generally assumed that soil is a perfectly plastic material when stability problems are considered and pseudo-elastic when estimates of deformation under working loads are required. While this elastic-plastic model has often proved quite adequate for design purposes, it has however created some problems of credibility. This book introduces a visco-elastic rheological model. Using this model a unified approach to deformation and stability problems is possible.

Published in 1984
Price £ 38.00
324 pages, 159 illustrations
ISBN 0 85334 285 7
Elsevier Applied Sciences Publishers Ltd

Schweizer Pioniere der Wirtschaft und Technik

Fünf Schweizer Brückenbauer:
Othmar H. Ammann (1879 – 1965)
Richard Coray (1869 – 1946)
Guillaume-Henri Dufour (1787 – 1875)
Hans Ulrich Grubenmann (1709 – 1783)
Robert Maillart (1872 – 1940)
Sie prägten den Brückenbau in der Schweiz und in den USA.

Herausgegeben: 1985
Preis: Fr. 24.—
155 Seiten mit 135 Abbildungen
Band 41 der Reihe «Schweizer Pioniere der Wirtschaft und Technik»
Verein für wirtschaftshistorische Studien
Stockerstrasse 8
CH-8002 Zürich

Energy Conservation in the Design of Multi-Storey Buildings

edited by Henry J. Cowan

A selection of papers on the energy conserving design of multi-storey buildings written by researchers, architects and mechanical engineers from Australia, Singapore and New York. The papers do not simply cover current research but detail its application in the design of major building projects. In addition consideration is given to energy management in the functional multi-storey building.

Published in 1984
Price: \$A 35
249 pages, 95 illustrations
ISBN 0 08 029850 8
Pergamon Press

Principles of Space Structures

by N. Subramanian

This book fills the gap for a detailed work which can explain the fundamental concepts involved in the design, construction and analysis of space structures. Dr. Subramanian's book synthesises the data currently available on the subject with the author's own original and exhaustive research in this area. Several new topics, such as, Tensegrity, Pneumatic Structures which are still the subject of research by Scientists the world over have been discussed in the book.

Published in 1983
288 pages, 220 illustrations
Wheeler Publishers, Allahabad

Conference on Space Structures

This volume contains the papers presented at the Third International Conference on Space Structures, held at the University of Surrey, UK, 11 – 14th September 1984. In all there are 180 papers, written by 294 experts on various aspects of analysis, design and construction of space structures such as grids, barrel vaults, domes, towers, folded plates and tension structures.

It provides a vast amount of information on all aspects of space structures and is of direct interest to structural engineers, architects, contractors and space structure manufacturers. With regard to design and construction, many new ideas and innovations are presented and, in addition to discussing the well-established space structure systems, some new jointing techniques are introduced. On the analysis front, a number of important advances are reported. In particular, research results leading to a better understanding of collapse behaviour of space structures are presented and more elaborate techniques for consideration of geometric and/or material non-linearities are discussed. The part on configuration processing is a main feature of the volume, presenting significant progress in this new and exciting field of knowledge.

Published in 1984
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1067 pages, 2169 illustrations
ISBN 0 85334 309 8
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