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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.

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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 synthesizes the data currently available on the subject with the author's own original and exhaustive research in this area.

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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.

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1067 pages, 2169 illustrations

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