



Computer-Aided Structural Analysis

Srinivasan Chandrasekaran



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Computer Aided Engineering For Structural Analysis:

COMPUTER AIDED ENGINEERING: ADVANCED STRUCTURAL ANALYSIS. RAFAAT M. HUSSEIN,1988

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Includes a selection of papers presented at the Sixth International Conference on Computing in Civil and Structural Engineering and the Fourth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering held at Cambridge England 28 30 August 1995 Fundamentals of Computer-Aided Engineering Benny Raphael,Ian F. C. Smith,2003-06-09 It is vital that today s engineers work with computer based tools and techniques However programming courses do not provide engineering students with the skills that are necessary to succeed in their professional career Here the authors propose a novel practical approach that encompasses knowledge assimilation decision making capabilities and technical agility together with concepts in computer aided engineering that are independent of hardware and software technologies This book Outlines general concepts such as fundamental logic definition of engineering tasks and computational complexity Covers numerous representation frameworks and reasoning strategies such as databases objects constraints knowledge systems search and optimisation scientific computation and machine learning Features visualization and distribution of engineering information Presents a range of IT topics that are relevant to all branches of engineering Offers many practical engineering examples and exercises Fundamentals of Computer Aided Engineering provides support for all students involved in computer aided engineering courses in civil mechanical chemical and environmental engineering This book is also a useful reference for researchers practising engineers using CAE and educators who wish to increase their knowledge of fundamental concepts

Guide to Computer Aided Engineering

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