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7550-8. This convenient online feature, which includes color figures, screen shots and input files for sample problems, allows for regeneration on the reader's own computer. Students, researchers, and practitioners alike will find this an essential guide to predicting and simulating the physical

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behavior of complex engineering systems."

This volume comprises select proceedings of the 7th International and 28th All India Manufacturing

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Technology, Design and Research conference 2018 (AIMTDR 2018). The papers in this volume discuss simulations based on techniques such as finite element method (FEM) as well as soft computing based techniques such as artificial neural network (ANN), their optimization and

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the development and design of mechanical products. This volume will be of interest to researchers, policy makers, and practicing engineers alike.

The bible of stress concentration factors—updated to reflect today's

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advances in stress analysis This book establishes and maintains a system of data classification for all the applications of stress and strain analysis, and expedites their synthesis into CAD applications. Filled with all of the latest developments in stress and strain analysis, this Fourth Edition



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presents stress concentration factors both graphically and with formulas, and the illustrated index allows readers to identify structures and shapes of interest based on the geometry and loading of the location of a stress concentration factor.

Peterson's Stress Concentration

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Factors, Fourth Edition includes a thorough introduction of the theory and methods for static and fatigue design, quantification of stress and strain, research on stress concentration factors for weld joints and composite materials, and a new introduction to the systematic stress analysis

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approach using Finite Element Analysis (FEA). From notches and grooves to shoulder fillets and holes, readers will learn everything they need to know about stress concentration in one single volume. Peterson's is the practitioner's go-to stress concentration factors reference

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Includes completely revised introductory chapters on fundamentals of stress analysis; miscellaneous design elements; finite element analysis (FEA) for stress analysis Features new research on stress concentration factors related to weld joints and composite materials Takes

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a deep dive into the theory and methods for material characterization, quantification and analysis methods of stress and strain, and static and fatigue design Peterson's Stress Concentration Factors is an excellent book for all mechanical, civil, and structural engineers, and for all

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engineering students and researchers.

This book focuses on the two-phase flow problems relevant in the automotive and power generation sectors. It includes fundamental studies on liquid-gas two-phase interactions, nucleate and film boiling,

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condensation, cavitation, suspension flows as well as the latest developments in the field of two-phase problems pertaining to power generation systems. It also discusses the latest analytical, numerical and experimental techniques for investigating the role of two-phase

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flows in performance analysis of devices like combustion engines, gas turbines, nuclear reactors and fuel cells. The wide scope of applications of this topic makes this book of interest to researchers and professionals alike.

Almost all welding technology depends



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upon the use of concentrated energy sources to fuse or soften the material locally at the joint, before such energy can be diffused or dispersed elsewhere. Although comprehensive treatments of transient heat flow as a controlling influence have been developed progressively and

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published over the past forty years, the task of uniting the results compactly within a textbook has become increasingly formidable. With the comparative scarcity of such works, welding engineers have been denied the full use of powerful design analysis tools. During the past decade Dr Radaj

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has prepared to fulfil this need, working from a rich experience as pioneer researcher and teacher, co-operator with Professor Argyris at Stuttgart University in developing the finite element method for stress analysis of aircraft and power plant structures, and more recently as

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expert consultant on these and automotive structures at Daimler Benz. His book appeared in 1988 in the German language, and this updated English language edition will significantly increase the availability of the work.

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This book presents the selected peer-reviewed proceedings of the International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019). The volume focuses on latest research and advances in the field of civil engineering and materials science

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such as design and development of new environmental materials, performance testing and verification of smart materials, performance analysis and simulation of steel structures, design and performance optimization of concrete structures, and building materials analysis. The book also

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covers studies in geotechnical engineering, hydraulic engineering, road and bridge engineering, building services design, engineering management, water resource engineering and renewable energy. The contents of this book will be useful for students, researchers and

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professionals working in civil engineering.

Presents the proceedings of the 5th RILEM International Symposium, held in Barcelona in September 1993. The papers discuss creep and shrinkage of concrete, and should be of interest to



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cement and concrete technologists and researchers, as well as structural engineers.

Following the great progress made in computing technology, both in computer and programming technology, computation has become

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one of the most powerful tools for researchers and practicing engineers. It has led to tremendous achievements in computer-based structural engineering and there is evidence that current developments will even accelerate in the near future. To acknowledge this trend, Tongji

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University, Vienna University of Technology, and Chinese Academy of Engineering, co-organized the International Symposium on Computational Structural Engineering 2009 in Shanghai (CSE09). CSE09 aimed at providing a forum for presentation and discussion of sta- of-

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the-art development in scientific computing applied to engineering sciences. Emphasis was given to basic methodologies, scientific development and engineering applications. Therefore, it became a central academic activity of the International Association for Computational

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Mechanics (IACM), the European Com- nity on Computational Methods in Applied Sciences (ECCOMAS), The Chinese Society of Theoretical and Applied Mechanic, the China Civil Engineering So- ety, and the Architectural Society of China. A total of 10 invited papers, and around 140

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contributed papers were presented in the proceedings of the symposium. Contributors of papers came from 20 countries around the world and covered a wide spectrum related to the computational structural engineering.

This book contains 14 invited

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contributions written by distinguished authors who participated in the VIII International Conference on Computational Plasticity held at CIMNE/UPC ([www.cimne.com](http://www.cimne.com)) from 5-8 September 2005, in Barcelona, Spain. The chapters present recent progress and future research

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directions in the field of computational  
plasticity.

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