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CD-ROM includes: complete self-contained computer programs with source codes in Visual Basic, Excel-based Visual Basic, MATLAB, QUICKBASIC, FORTRAN, and C.

Metal Cutting Mechanics outlines the fundamentals of metal cutting analysis, reducing the extent of empirical approaches to the

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problems as well as bridging the gap between design and manufacture. The author distinguishes his work from other works through these aspects: considering the system engineering of the cutting process identifying the singularity of the cutting process among other closely related manufacturing processes by chip formation, caused by bending and shear stresses in the deformation zone suggesting a distinctive way toward predictability of the metal cutting process devoting special attention to experimental methodology Metal Cutting Mechanics provides an exceptional balance between general reading and research analysis, presenting industrial and academic requirements in terms of basic scientific factors as well as application potential.

This book comprises select proceedings of the International

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Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2018). The book discusses different topics of industrial and production engineering such as sustainable manufacturing systems, computer-aided engineering, rapid prototyping, manufacturing management and automation, metrology, manufacturing process optimization, casting, welding, machining, and machine tools. The contents of this book will be useful for researchers as well as professionals.

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

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such as artificial neural network (ANN), their optimization and the development and design of mechanical products. This volume will be of interest to researchers, policy makers, and practicing engineers alike.

Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries,

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the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

Rapid technical advances in medical imaging, including its growing application to drug/gene therapy and invasive/interventional procedures, have attracted significant interest in close integration of

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research in life sciences, medicine, physical sciences and engineering. This is motivated by the clinical and basic science research requirement of obtaining more detailed physiological and pathological information about the body for establishing localized genesis and progression of diseases. Current research is also motivated by the fact that medical imaging is increasingly moving from a primarily diagnostic modality towards a therapeutic and interventional aid, driven by recent advances in minimal-access and robotic-assisted surgery. It was our great pleasure to welcome the attendees to MIAR 2004, the 2nd International Workshop on Medical Imaging and Augmented Reality, held at the Xishan (Fragrant Hills) Hotel, Beijing, during August 19-20, 2004. The goal of MIAR 2004 was to bring together researchers in computer vision, graphics, robotics, and medical imaging to present the state-

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of-the-art developments in this ever-growing research area. The meeting consisted of a single track of oral/poster presentations, with each session led by an invited lecture from our distinguished international faculty members. For MIAR 2004, we received 93 full submissions, which were subsequently reviewed by up to 5 reviewers, resulting in the acceptance of the 41 full papers included in this volume.

This work on structural stability has been written primarily as a textbook to provide a clear understanding of theoretical stability behaviour. It will give readers a basic understanding of the design specifications developed by, for example, AISC, and implemented in building codes by IBC.

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This book on Thesis Writing for Master's and Ph.D. program focuses on the difficulties students encounter with regard to choosing a guide; selecting an appropriate research title considering the available resources; conducting research; and ways to overcome the hardships they face while researching, writing and preparing their dissertation for submission. Thesis writing is an essential skill that medical and other postgraduates are expected to learn during their academic career as a mandatory partial requirement in order to receive the Master's degree. However, at the majority of medical schools, writing a thesis is largely based on self-learning, which adds to the burden on students due to the tremendous amount of time spent learning the writing skills in addition to their exhausting clinical and academic work. Due to the difficulties faced during the early grooming years and lack of adequate guidance, acquiring

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writing skills continues to be a daunting task for most students. This book addresses these difficulties and deficiencies and provides comprehensive guidance, from selecting the research title to publishing in a scientific journal.

This unique volume celebrates the five decades of the impact of Anderson localization on modern physics. In addition to the historical perspective on its origin, it provides a comprehensive description of the experimental and theoretical aspects of Anderson localization.

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