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Emphasizing how one applies FEM to practical engineering problems, this text provides a thorough introduction to the methods of finite analysis and applies these methods to problems of stress analysis, thermal analysis, fluid flow analysis, and lubrication.

An introductory textbook for senior/graduate couses in finite element analysis taught in all engineering departments. Covers the basic concepts of the finite element method and their application to the analysis of plane structures and two-dimensional continuum problems in heat transfer, irrotational fluid flow, and elasticity. This revised edition includes a reorganization of topics and an increase in the number of homework problems. The emphasis on numerical illustrations make topis clear without heavy use of sophisticated mathematics.

A presentation of detailed theory and computer programs which can be used for stress analysis. The finite element

formulations are developed through easy-to-follow derivations for the analysis of plane stress or strain and axisymmetric solid, plate-bending, three dimensional solid and shell problems.

?This book offers an up-to-date overview of childbirth-related pelvic floor dysfunction covering prevention, diagnosis, and management. It encompasses all relevant conditions, with particular focus on genital prolapse, urinary incontinence, and fecal incontinence. Risk factors for pelvic floor damage related to childbirth are identified, and a 3D simulation of delivery is presented. The role of various diagnostic tools, including pelvic floor ultrasonography and magnetic resonance imaging and anal sphincter electromyography, is clearly described. The importance of physiotherapy in preventing future alterations is explained, and the indications for surgery, which is reserved for more severe situations, are discussed. The book highlights the need for a multidisciplinary approach involving obstetricians, gynecologists, urologists, midwives, radiologists, physiotherapists, muscle laboratory engineers, and computer technicians.

This handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system. Focusing on various aspects of the development and application of indicators derived from data on scholarly publications, patents and electronic communications, the individual chapters, written by leading experts, discuss theoretical and methodological issues, illustrate applications, highlight their policy context and relevance, and point to future research directions. A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources, presenting both

traditional and advanced approaches. It addresses the main bibliographic metrics and indexes, such as the journal impact factor and the h-index, as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society. It also presents and critically discusses various national research evaluation systems. Complementing the sections reflecting on the science system, the technology section includes multiple chapters that explain different aspects of patent statistics, patent classification and database search methods to retrieve patent-related information. In addition, it examines the relevance of trademarks and standards as additional technological indicators. The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners, scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance.

Positioned at the interface between historical sociology, anthropology, and social movement studies, We Were Gasping for Air goes beyond the widely exploited paradigms of nationalism and civil society to track the (post-)Yugoslav anti-war protest cycle which unfolded throughout the 1990s. Drawing upon extensive fieldwork in the region, the book argues that (post-)Yugoslav anti-war activism cannot be recovered without appreciating both the inter- and intra-republican cooperations and contestations in socialist Yugoslavia. (Post-)Yugoslav anti-war undertakings appropriated and developed the already existing social networks and were instrumental for the establishment of present-day organizations devoted to human rights

protection, transitional justice, and peace education across the ex-Yugoslav space. (Series: Southeast European Integration Perspectives - Vol. 8)

In the last decade, ontologies have received much attention within computer science and related disciplines, most often as the semantic web. Ontology Learning and Population from Text: Algorithms, Evaluation and Applications discusses ontologies for the semantic web, as well as knowledge management, information retrieval, text clustering and classification, as well as natural language processing. Ontology Learning and Population from Text: Algorithms, Evaluation and Applications is structured for research scientists and practitioners in industry. This book is also suitable for graduate-level students in computer science.

This volume introduces the basic mathematical tools behind conformal mapping, describes advances in technique, and illustrates a broad range of applications. 1991 edition. Includes 247 figures and 38 tables.

This book describes the main objective of EuroWordNet, which is the building of a multilingual database with lexical semantic networks or wordnets for several European languages. Each wordnet in the database represents a language-specific structure due to the unique lexicalization of concepts in languages. The concepts are inter-linked via a separate Inter-Lingual-Index, where equivalent concepts across languages should share the same index item. The flexible multilingual design of the database makes it possible to compare the lexicalizations and semantic structures, revealing answers to fundamental linguistic and philosophical questions which could never be answered before. How consistent are lexical semantic networks across languages,

what are the language-specific differences of these networks, is there a language-universal ontology, how much information can be shared across languages? First attempts to answer these questions are given in the form of a set of shared or common Base Concepts that has been derived from the separate wordnets and their classification by a language-neutral top-ontology. These Base Concepts play a fundamental role in several wordnets. Nevertheless, the database may also serve many practical needs with respect to (cross-language) information retrieval, machine translation tools, language generation tools and language learning tools, which are discussed in the final chapter. The book offers an excellent introduction to the EuroWordNet project for scholars in the field and raises many issues that set the directions for further research in semantics and knowledge engineering.

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