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This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Learn to model your own problems for predicting the properties of polymer-based composites [Mechanics of Particle- and Fiber-Reinforced Polymer Nanocomposites: Nanoscale to Continuum Simulations](#) provides readers with a thorough and up-to-date overview of nano, micro, and continuum approaches for the multiscale modeling of polymer-based composites. Covering nanocomposite development, theoretical models, and common simulation methods, the text includes a variety of case studies and scripting tutorials that enable readers to apply and further develop the supplied simulations. The book describes the foundations of molecular dynamics and continuum mechanics methods, guides readers through the basic steps required for multiscale modeling of any material, and correlates the results between the experimental and theoretical work performed. Focused primarily on nanocomposites, the methods covered in the book are applicable to various other materials such as carbon nanotubes, polymers, metals, and ceramics. Throughout the book, readers are introduced to key topics of relevance to nanocomposite materials and structures—supported by journal articles that discuss recent developments in modeling techniques and in the prediction of mechanical and thermal properties. This timely, highly practical resource: Explains the molecular dynamics (MD) simulation procedure for nanofiber and nanoparticle reinforced polymer composites Compares results of experimental and theoretical results from mechanical models at different length scales Covers different types of fibers and matrix materials that constitute composite materials, including glass, boron, carbon, and Kevlar Reviews models that predict the stiffness of short-fiber composites, including the self-consistent model for finite-length fibers, bounding models, and the Halpin-Tsai equation Describes various molecular modeling methods such as Monte Carlo, Brownian dynamics, dissipative particle dynamics, and lattice Boltzmann methods Highlights the potential of nanocomposites for defense and space applications Perfect for materials scientists, materials engineers, polymer scientists, and mechanical engineers, [Mechanics of Particle- and Fiber-Reinforced Polymer Nanocomposites](#) is also a must-have reference for computer simulation scientists seeking to improve their understanding of reinforced polymer nanocomposites.

Structural Analysis with Finite Elements develops the foundations and applications of the finite element method in structural analysis in a language which is familiar to structural engineers and based on a foundation that enables structural engineers to address key questions that arise in computer modelling of structures with finite elements. At the same time, it uncovers the structural mechanics behind the finite element method. This innovative text explores and explains issues such as:

Developed from the author's graduate-level course on advanced mechanics of composite materials, Finite Element Analysis of Composite Materials with Abaqus shows how powerful finite element tools address practical problems in the structural analysis of composites. Unlike other texts, this one takes the theory to a hands-on level by actually solving

This informal introduction to computational fluid dynamics and practical guide to numerical simulation of transport phenomena covers the derivation of the governing equations, construction of finite element approximations, and qualitative properties of numerical solutions, among other topics. To make the book accessible to readers with diverse interests and backgrounds, the authors begin at a basic level and advance to numerical tools for increasingly difficult flow problems, emphasizing practical implementation rather than mathematical theory. Finite Element Methods for Computational Fluid Dynamics: A Practical Guide explains the basics of the finite element method (FEM) in the context of simple model problems, illustrated by numerical examples. It comprehensively reviews stabilization techniques for convection-dominated transport problems, introducing the reader to streamline diffusion methods, Petrov-Galerkin approximations, Taylor-Galerkin schemes, flux-corrected transport algorithms, and other nonlinear high-resolution schemes, and covers Petrov-Galerkin stabilization, classical projection schemes, Schur complement solvers, and the implementation of the k-epsilon turbulence model in its presentation of the FEM for incompressible flow problem. The book also describes the open-source finite element library ELMER, which is recommended as a software development kit for advanced applications in an online component.

This book is a part of ICL new book series “ ICL Contribution to Landslide Disaster Risk Reduction ” founded in 2019. Peer-reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series. This book contains the following parts: • Impact of Large Ground Deformations near Seismic Faults on Critically Important Civil Infrastructures • Recent Progress in the Landslide Initiating Science • Earth Observation and Machine Learning in Landslide Science • General Landslide Studies Professor Željko Arbanas is the Vice President of International Consortium on Landslides. He is a Professor of Faculty of Civil Engineering, University of Rijeka, Croatia. He is the Assistant Editor-in-Chief of International Journal Landslides. Professor Peter Bobrowsky is the President of International Consortium on Landslides. He is a Senior Scientist of Geological Survey of Canada, Ottawa, Canada. Professor Kazuo Konagai is Professor Emeritus at the University of Tokyo and Principal Researcher at the ICL Headquarters. He serves as the Secretary-General of the Fifth World Landslide Forum. Professor Kyoji Sassa is the Founding President and the Secretary-General of the International Consortium on Landslides (ICL). He has been the Editor-in-Chief of International Journal Landslides since its foundation in 2004. Professor Kaoru Takara is the Executive Director of International Consortium on Landslides. He is a Professor and Dean of Graduate School of Advanced Integrated Studies (GSAIS) in Human Survivability (Shishu-Kan), Kyoto University.

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