

Gaur And Kaul Engineering Mathematics 1

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multiscale simulations and mechanics of biological materials a compilation of recent developments in multiscale simulation and computational biomaterials written by leading specialists in the field presenting the latest developments in multiscale mechanics and multiscale simulations and offering a unique viewpoint on multiscale modelling of biological materials this book outlines the latest developments in computational biological materials from atomistic and molecular scale simulation on dna proteins and nano particles to meoscale soft matter modelling of cells and to macroscale soft tissue and blood vessel and bone simulations traditionally computational biomaterials researchers come from biological chemistry and biomedical engineering so this is probably the first edited book to present work from these talented computational mechanics researchers the book has been written to honor professor wing liu of northwestern university usa who has made pioneering contributions in multiscale simulation and computational biomaterial in specific simulation of drug delivery at atomistic and molecular scale and computational cardiovascular fluid mechanics via immersed finite element method key features offers a unique interdisciplinary approach to multiscale biomaterial modelling aimed at both accessible introductory and advanced levels presents a breadth of computational approaches for modelling biological materials across multiple length scales molecular to whole tissue scale including solid and fluid based approaches a companion website for supplementary materials plus links to contributors websites wiley.com/go/li/multiscale

offers coverage of the development of protein purification processes for large scale commercial operations and addresses process development scale up applications and mathematical descriptions technologies currently used at the commercial scale are covered in depth

from the preface the advent of computers has opened new horizons in the field of engineering design in the realm of analysis for engineering design the finite element method has emerged as a powerful tool for modeling and analysis of solids and structures of complex geometries and variable material properties in many areas of engineering design such as machine components pressure vessels nuclear reactors off shore structures steel and concrete buildings bridges towers automobile components turbine parts power plant structures etc the text book literature on the finite element method exists at an introductory level through the new and more advanced level of simple applications modeling and analysis of practical problems continue to be developed and published in technical journals developments are

also taking place in the use of artificial intelligence techniques in expert systems to advise the analysts on the choice of the elements type of analysis discretization etc for solving complicated problems it is essential to periodically synthesize all the developments on the finite element method and its applications to practical problems of engineering design and also to identify the future areas of research both in the domains of academic research and industrial applications keeping this in mind an advanced study institute was organized at indian institute of technology madras india during aug 10 1988 this volume contains lecture notes prepared by the invited lecturers attending the advanced study institute it should serve as a ready reference to researchers and practitioners engaged in the finite element analysis related to engineering design in several disciplines

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