

Schaum's Outline Of Lagrangian Dynamics

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Multibody Dynamics
Quantum Invariants of Knots and 3-Manifolds
Mathematical Principles of the Internet, Volume 2
Mathematical Principles of the Internet, Two Volume Set
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this book includes 275 solved problems

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this volume provides the international multibody dynamics community with an up to date view on the state of the art in this rapidly growing field of research which now plays a central role in the modeling analysis simulation and optimization of mechanical systems in a variety of fields and for a wide range of industrial applications this book contains selected contributions delivered at the ecommas thematic conference on multibody dynamics which was held in brussels belgium and organized by the universit  catholique de louvain from 4th to 7th july 2011 each paper reflects the state of art in the application of multibody dynamics to different areas of engineering they are enlarged and revised versions of the communications which were enhanced in terms of self containment and tutorial quality by the authors the result is a comprehensive text that constitutes a valuable reference for researchers and design engineers which helps to appraise the potential for the application of multibody dynamics methodologies to a wide range of areas of scientific and engineering relevance

due to the strong appeal and wide use of this monograph it is now available in its third revised edition the monograph gives a systematic treatment of 3 dimensional topological quantum field theories tqfts based on the work of the author with n reshetikhin and o viro this subject was inspired by the discovery of the jones polynomial of knots and the witten chern simons field theory on the algebraic side the study of 3 dimensional tqfts has been influenced by the theory of braided categories and the theory of quantum groups the book is divided into three parts part i presents a construction of 3 dimensional tqfts and 2 dimensional modular functors from so called modular categories this gives a vast class of knot invariants and 3 manifold invariants as well as a class of linear representations of the mapping class groups of surfaces in part ii the technique of 6j symbols is used to define state sum invariants of 3 manifolds their relation to the tqfts constructed in part i is established via the theory of shadows part iii provides constructions of modular categories based on quantum groups and skein modules of tangles in the 3 space this fundamental contribution to topological quantum field theory is accessible to graduate students in mathematics and physics with knowledge of basic algebra and topology it is an indispensable source for everyone who wishes to enter the forefront of this fascinating area at the borderline of mathematics and physics contents invariants of graphs in euclidean 3 space and of closed 3 manifolds foundations of topological quantum field theory three dimensional topological quantum field theory two dimensional modular functors 6j symbols simplicial state sums on 3 manifolds shadows of manifolds and state sums on shadows constructions of modular categories

this two volume set on mathematical principles of the internet provides a comprehensive overview of the mathematical principles of internet engineering the books do not aim to provide all of the mathematical foundations upon which the internet is based instead they cover a partial panorama and the key principles volume 1 explores internet engineering while the supporting mathematics is covered in volume 2 the chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained elements of information theory algebraic coding theory cryptography internet traffic dynamics and control of internet congestion and queueing theory are discussed in addition stochastic networks graph theoretic algorithms application of game

theory to the internet internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed in order to study the structure and function of the internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required these mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to internet engineering

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this book offers an in depth presentation of the mechanics of particles and systems the material is thoroughly class tested and hence eminently suitable as a textbook for a one semester course in classical mechanics for postgraduate students of physics and mathematics besides the book can serve as a useful reference for engineering students at the postgraduate level the book provides not only a complete treatment of classical theoretical physics but also an enormous number of worked examples and problems to show students clearly how to apply abstract principles and mathematical techniques to realistic problems while abstraction of theory is minimized detailed mathematical analysis is provided wherever necessary besides an all embracing coverage of different aspects of classical mechanics the rapidly growing areas of nonlinear dynamics and chaos are also included the chapter on central force motion includes topics like satellite parameters orbital transfers and scattering problem an extensive treatment on the essentials of small oscillations which is crucial for the study of molecular vibrations is included rigid body motion and special theory of relativity are also covered in two separate chapters

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