

Kishore Marathe

Topics in Physical Mathematics

 Springer

Topics In Physical Mathematics Topics In Physical Mathematics

Jürgen Jost



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such as curve sketching and practical methods of solution The latter take due account of the impact of computers on the subject The principles of mathematical expression are illustrated by copious examples taken from a wide range of topics in physics and chemistry Each of the short chapters concludes with a summary and a large number of problems *Probability and Related Topics in Physical Sciences* Mark Kac,1959-12-31 Nothing provided

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Undergraduate Catalog

University of Michigan--Dearborn,2006 *Quantum Field Theory III: Gauge Theory* Eberhard Zeidler,2011-08-17 In this third volume of his modern introduction to quantum field theory Eberhard Zeidler examines the mathematical and physical aspects of gauge theory as a principle tool for describing the four fundamental forces which act in the universe gravitative electromagnetic weak interaction and strong interaction Volume III concentrates on the classical aspects of gauge theory describing the four fundamental forces by the curvature of appropriate fiber bundles This must be supplemented by the crucial but elusive quantization procedure The book is arranged in four sections devoted to realizing the universal principle force equals curvature Part I The Euclidean Manifold as a Paradigm Part II Ariadne s Thread in Gauge Theory Part III Einstein s Theory of Special Relativity Part IV Ariadne s Thread in Cohomology For students of mathematics the book is designed to demonstrate that detailed knowledge of the physical background helps to reveal interesting interrelationships among diverse mathematical topics Physics students will be exposed to a fairly advanced mathematics beyond the level covered in the typical physics curriculum Quantum Field Theory builds a bridge between mathematicians and physicists based on challenging questions about the fundamental forces in the universe macrocosmos and in the world of elementary particles microcosmos

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