

Applied Mathematical Sciences

Gregory L. Naber

Topology, Geometry and Gauge fields

Interactions

Second Edition

 Springer

Topology Geometry And Gauge Fields Interactions Applied Mathematical Sciences

New Zealand Mathematical Society



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Topology, Geometry, and Gauge Fields Gregory L. Naber, 2013-03-14 This volume is intended to carry on the program initiated in Topology Geometry and Gauge Fields Foundations henceforth N4 It is written in much the same spirit and with precisely the same philosophical motivation Mathematics and physics have gone their separate ways for nearly a century now and it is time for this to end Neither can any longer afford to ignore the problems and insights of the other Why are Dirac magnetic monopoles in one to one correspondence with the principal $U(1)$ bundles over S^2 Why do Higgs fields fall into topological types What led Donaldson in 1980 to seek in the Yang Mills equations of physics for the key that unlocks the mysteries of smooth 4 manifolds and what physical insights into quantum field theory led Witten fourteen years later to propose the vastly simpler but apparently equivalent Seiberg Witten equations as an alternative We do not presume to answer these questions here but only to promote an atmosphere in which both mathematicians and physicists recognize the need for answers More succinctly we shall endeavor to provide an exposition of elementary topology and geometry that keeps one eye on the physics in which our concepts either arose independently or have been found to lead to a deeper understanding of the phenomena Chapter 1 provides a synopsis of the geometrical background we assume of our readers manifolds Lie groups bundles connections etc

Topology, Geometry, and Gauge Fields Gregory Naber, 1997-04-24 Like any books on a subject as vast as this this book has to have a point of view to guide the selection of topics Naber takes the view that the rekindled interest that mathematics and physics have shown in each other of late should be fostered and that this is best accomplished by allowing them to cohabit The book weaves together rudimentary notions from the classical gauge theory of physics with the topological and geometrical concepts that became the mathematical models of these notions The reader is asked to join the author on some vague notion of what an electromagnetic field might be to be willing to accept a few of the more elementary pronouncements of quantum mechanics and to have a solid background in real analysis and linear algebra and some of the vocabulary of modern algebra In return the book offers an excursion that begins with the definition of a topological space and finds its way eventually to the moduli space of anti self dual $SU(2)$ connections on S^4 with instanton number 1

Geometric Phases in Classical and Quantum Mechanics Dariusz Chruscinski, Andrzej Jamiolkowski, 2012-12-06 Several well established geometric and topological methods are used in this work in an application to a beautiful physical phenomenon known as the geometric phase This book examines the geometric phase bringing together different physical phenomena under a unified mathematical scheme The material is presented so that graduate students and researchers in applied mathematics and physics with an understanding of classical and quantum mechanics can handle the text

The Many Faces of Maxwell, Dirac and Einstein Equations Waldyr A. Rodrigues, Jr, Edmundo Capelas de Oliveira, 2016-04-26 This book is an exposition of the algebra and calculus of differential forms of the Clifford and Spin Clifford bundle formalisms and of vistas to a formulation of important concepts of differential geometry indispensable

for an in depth understanding of space time physics The formalism discloses the hidden geometrical nature of spinor fields Maxwell Dirac and Einstein fields are shown to have representatives by objects of the same mathematical nature namely sections of an appropriate Clifford bundle This approach reveals unity in diversity and suggests relationships that are hidden in the standard formalisms and opens new paths for research This thoroughly revised second edition also adds three new chapters on the Clifford bundle approach to the Riemannian or semi Riemannian differential geometry of branes on Komar currents in the context of the General Relativity theory and an analysis of the similarities and main differences between Dirac Majorana and ELKO spinor fields The exercises with solutions the comprehensive list of mathematical symbols and the list of acronyms and abbreviations are provided for self study for students as well as for classes From the reviews of the first edition The text is written in a very readable manner and is complemented with plenty of worked out exercises which are in the style of extended examples their book could also serve as a textbook for graduate students in physics or mathematics

Alberto Molgado Mathematical Reviews 2008 k *The Geometry of Heisenberg Groups* Ernst Binz, Sonja Pods, 2008 The three dimensional Heisenberg group being a quite simple non commutative Lie group appears prominently in various applications of mathematics The goal of this book is to present basic geometric and algebraic properties of the Heisenberg group and its relation to other important mathematical structures the skew field of quaternions symplectic structures and representations and to describe some of its applications In particular the authors address such subjects as signal analysis and processing geometric optics and quantization In each case the authors present necessary details of the applied topic being considered This book manages to encompass a large variety of topics being easily accessible in its fundamentals It can be useful to students and researchers working in mathematics and in applied mathematics

BOOK JACKET Probabilistic Models of Cosmic Backgrounds Anatoliy Malyarenko, 2024-06-30 Combining research methods from various areas of mathematics and physics Probabilistic Models of Cosmic Backgrounds describes the isotropic random sections of certain fiber bundles and their applications to creating rigorous mathematical models of both discovered and hypothetical cosmic backgrounds Previously scattered and hard to find mathematical and physical theories have been assembled from numerous textbooks monographs and research papers and explained from different or even unexpected points of view This consists of both classical and newly discovered results necessary for understanding a sophisticated problem of modelling cosmic backgrounds The book contains a comprehensive description of mathematical and physical aspects of cosmic backgrounds with a clear focus on examples and explicit calculations Its reader will bridge the gap of misunderstanding between the specialists in various theoretical and applied areas who speak different scientific languages The audience of the book consists of scholars students and professional researchers A scholar will find basic material for starting their own research A student will use the book as supplementary material for various courses and modules A professional mathematician will find a description of several physical phenomena at the rigorous mathematical level A professional physicist will discover

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