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Modern Differential Geometry for Physicists

Second Edition

Chris J Isham



Modern Differential Geometry For Physicists

Chris J. Isham



Modern Differential Geometry For Physicists:

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Modern Differential Geometry For Physicists Chris J Isham, 1989-08-01 These notes are the content of an introductory course on modern coordinate free differential geometry which is taken by the first year theoretical physics PhD students or by students attending the one year MSc course Fundamental Fields and Forces at Imperial College The book is concerned entirely with mathematics proper although the emphasis and detailed topics have been chosen with an eye to the way in which differential geometry is applied these days to modern theoretical physics This includes not only the traditional area of general relativity but also the theory of Yang Mills fields non linear sigma models and other types of non linear field systems that feature in modern quantum field theory This volume is in three parts dealing with respectively i introductory coordinate free differential geometry ii geometrical aspects of the theory of Lie groups and Lie group actions on manifolds iii introduction to the theory of fibre bundles In the first part of the book the author has laid considerable stress on the basic ideas of tangent space structure which he develops from several different points of view some geometrical and others more algebraic This is done with the awareness of the difficulty which physics graduate students often experience when being exposed for the first time to the rather abstract ideas of differential geometry

Modern Differential Geometry for Physicists C. J. Isham, 1999

Modern Differential Geometry for Physicists Chris J. Isham, 2002

Introductory Differential Geometry For Physicists A Visconti, 1992-10-09 This book develops the mathematics of differential geometry in a way more intelligible to physicists and other scientists interested in this field This book is basically divided into 3 levels level 0 the nearest to intuition and geometrical experience is a short summary of the theory of curves and surfaces level 1 repeats comments and develops upon the traditional methods of tensor algebra analysis and level 2 is an introduction to the language of modern differential geometry A final chapter chapter IV is devoted to fibre bundles and their applications to physics Exercises are provided to amplify the text material

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A Course in Modern Mathematical Physics Peter

Szekeres,2004-12-16 This book first published in 2004 provides an introduction to the major mathematical structures used in physics today It covers the concepts and techniques needed for topics such as group theory Lie algebras topology Hilbert space and differential geometry Important theories of physics such as classical and quantum mechanics thermodynamics and special and general relativity are also developed in detail and presented in the appropriate mathematical language The book is suitable for advanced undergraduate and beginning graduate students in mathematical and theoretical physics as well as applied mathematics It includes numerous exercises and worked examples to test the reader s understanding of the various concepts as well as extending the themes covered in the main text The only prerequisites are elementary calculus and linear algebra No prior knowledge of group theory abstract vector spaces or topology is required **Modern Differential Geometry in Gauge Theories** Anastasios Mallios,2005-12-14 This is original well written work of interest Presents for the first time physical field theories written in sheaf theoretic language Contains a wealth of minutely detailed rigorous computations usually absent from standard physical treatments Author s mastery of the subject and the rigorous treatment of this text make it invaluable **Applied Differential Geometry** Vladimir G. Ivancevic,Tijana T. Ivancevic,2007 This graduate level monographic textbook treats applied differential geometry from a modern scientific perspective Co authored by the originator of the world s leading human motion simulator Human Biodynamics Engine a complex 264 DOF bio mechanical system modeled by differential geometric tools this is the first book that combines modern differential geometry with a wide spectrum of applications from modern mechanics and physics via nonlinear control to biology and human sciences The book is designed for a two semester course which gives mathematicians a variety of applications for their theory and physicists as well as other scientists and engineers a strong theory underlying their models Modern Differential Geometry in Gauge Theories Set Anastasios Mallios,2007-08-15

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