

Mathematical Physics

**Special
Student
Edition**

A Modern Introduction to Its Foundations

Sadri Hassani

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Xiang Xie



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Problems and Solutions on Vector Spaces for Physicists Robert B. Scott, 2023-08-09 This book offers supporting material for the comprehensive textbook *Mathematical Physics A Modern Introduction to Its Foundations* authored by Sadri Hassani. The book covers mathematical preliminaries and all of Part I in Hassani's textbook. The subjects covered here include the key topics necessary for physicists to form a solid mathematical foundation: vectors and linear maps, algebras, operators, matrices, and spectral decomposition. In particular, the vector space concept is a central unifying theme in later chapters of Hassani's textbook. Detailed solutions are provided to one third of the end of chapter exercises in the first six chapters of his text. The present volume helps upper undergraduate and early postgraduate physics students deepen their understanding of the mathematics that they encounter in physics, learn physics more efficiently, and use mathematics with more confidence and creativity. The content is thus presented rigorously but remains accessible to physics students. New exercises are also proposed, some with solutions, some without, so that the total number of unsolved exercises remains unchanged. They are chosen to help explain difficult concepts, amplify key points in Hassani's textbook, or make further connections with applications in physics. Taken together with Hassani's work, the two form a self-contained set, and the solutions make detailed reference to Hassani's text. The solutions also refer to other mathematics and physics textbooks, providing entry points to further literature that finds a useful place in the physicist's personal library.

Foundations of Mathematical Physics Sadri Hassani, 1991

A Student's Manual for A First Course in General Relativity Robert B. Scott, 2016-01-21 This comprehensive student manual has been designed to accompany the leading textbook by Bernard Schutz, *A First Course in General Relativity*, and uses detailed solutions cross-referenced to several introductory and more advanced textbooks to enable self-learners, undergraduates, and postgraduates to master general relativity through problem solving. The perfect accompaniment to Schutz's textbook, this manual guides the reader step by step through over 200 exercises with clear, easy-to-follow derivations. It provides detailed solutions to almost half of Schutz's exercises and includes 125 brand new supplementary problems that address the subtle points of each chapter. It includes a comprehensive index and collects useful mathematical results, such as transformation matrices and Christoffel symbols for commonly studied spacetimes, in an appendix. Supported by an online table categorising exercises, a Maple worksheet, and an instructors manual, this text provides an invaluable resource for all students and instructors using Schutz's textbook.

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