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A Student's Manual for a First Course in General Relativity (Paperback)

By Sir Robert Bodley Scott

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2016.
 Paperback. Book Condition: New. Student. 246 x 189 mm.
 Language: English . Brand New Book. 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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