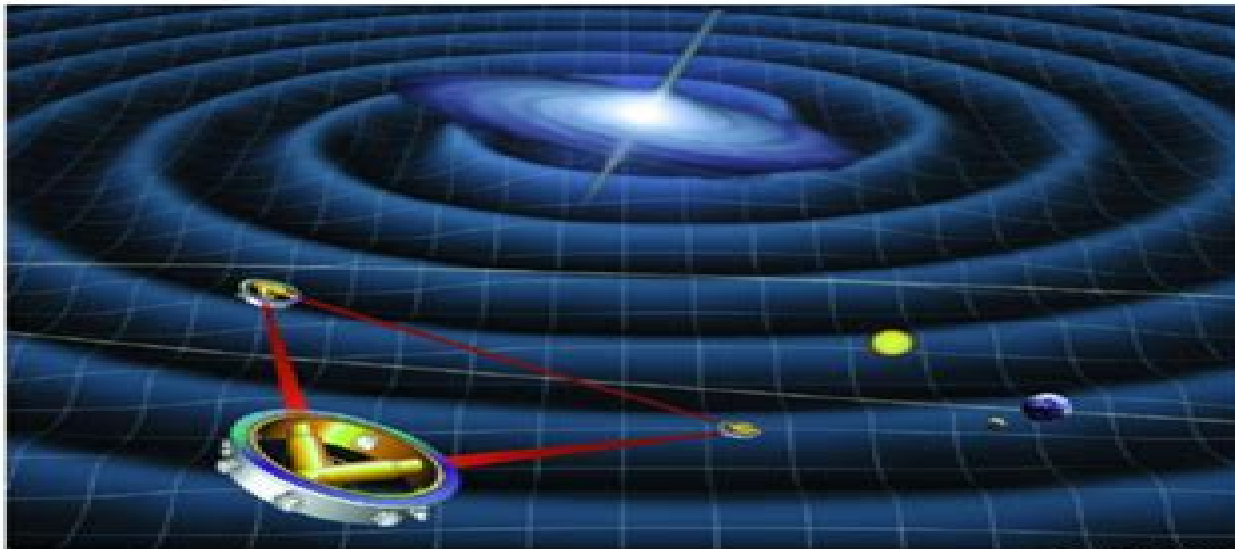


A General Relativity Workbook



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Thomas A. Moore
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the black holes the cosmological solutions like de Sitter Friedmann Lema tre Robertson Walker and G del ones Some current problems like dark energy are also sketched The book is self contained and includes details of all proofs It provides solutions or tips to solve problems and exercises It is designed for undergraduate students and for all readers who want a first geometric approach to Special and General Relativity

A Standard Model Workbook Thomas A. Moore, 2023-12-11 This introduction to the Standard Model of particle physics provides students with a classroom tested workbook to optimize learning this material in student centered classes Developed to support a one semester upper level undergraduate or graduate course it includes hundreds of homework problems that will guide students to a clear understanding of this fascinating field A Standard Model Workbook provides upper level undergraduates a one semester introduction to the Standard Model of particle physics Its classroom tested workbook design offers multiple paths through the material consisting of short chapters that provide an overview of a topic followed by opportunities for students to work out the details for themselves concluding with homework problems to further develop students understanding of the concepts This allows students to truly own the materials by working through it and allows instructors to construct an active student centered class Topics include a review of special relativity and quantum mechanics the Lagrangian mechanics of fields some basic quantum field theory Feynman diagrams solutions to the Dirac equation the U 1 SU 2 and SU 3 symmetries and their implications for electrodynamics the electroweak theory and quantum chromodynamics renormalization the Higgs mechanism fermion and neutrino masses experimental tests and applications of the Standard Model and a look at possibilities beyond the Standard Model The book is designed to offer multiple paths through the material so that instructors can choose what to emphasize Online Hints and Selected Solutions are also available as is an online Instructor s Manual

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Kurt Gödel: Results on Foundations Maria Hämeen-Anttila, Jan von Plato, 2023-07-17 Kurt Gödel 1906-1978 gained world wide fame by his incompleteness theorem of 1931 Later he set as his aim to solve what are known as Hilbert's first and second problems namely Cantor's continuum hypothesis about the cardinality of real numbers and secondly the consistency of the theory of real numbers and functions By 1940 he was halfway through the first problem in what was his last published result in logic and foundations His intense attempts thereafter at solving these two problems have remained behind the veil of a forgotten German shorthand he used in all of his writing *Results on Foundations* is a set of four shorthand notebooks written in 1940-42 that collect results Gödel considered finished Its main topic is set theory in which Gödel anticipated several decades of development Secondly Gödel completed his 1933 program of establishing the connections between intuitionistic and modal logic by methods and results that today are at the same time new and 80 years old The present edition of Gödel's four notebooks encompasses the 368 numbered pages and 126 numbered theorems of the *Results on Foundations* together with a list of 74 problems on set theory Gödel prepared in 1946 and a list of an unknown date titled *The grand program of my research in ca hundred questions*

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