



# A General Relativity Workbook

By Thomas A. Moore

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A General Relativity Workbook is a textbook intended to support a one-semester undergraduate course on general relativity. Through its unique workbook-based design, it enables students to develop a solid mastery of both the physics and the supporting tensor calculus by guiding them to work through the implications. The mathematics is introduced gradually and in a completely physical context. Each chapter, which is designed to correspond to one class session, involves a short overview of the concepts without obscuring derivations or details, followed by a series of boxes that guide students through the process of working things out. This active-learning approach enables students to develop a more secure mastery of the material than more traditional approaches. More than 350 homework problems support further learning.

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#### Review

'Moore's workbook makes General Relativity accessible to undergraduates who have seen little or none of the underlying mathematical framework. This is achieved not by watering down the contents, but rather by systematically guiding readers to work everything out themselves until they own the concepts and the mathematical techniques. It is indeed a workbook, which I trust will be a great success.' --- Sergio Picozzi, University of Maryland, USA

With its clean organization, its direct and clear prose, and especially its pedagogically effective workbook format, Moore's A General Relativity Workbook may quickly become the new standard for upper division undergraduate courses in General Relativity.' ---John Mallinckrodt, Cal Poly Pomona, USA

#### About the Author

THOMAS A. MOORE is a Professor in the physics department of Pomona College, California, USA.

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