



A Relativist's Toolkit: The Mathematics of Black-Hole Mechanics

By *Eric Poisson*

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This textbook fills a gap in the existing literature on general relativity by providing the advanced student with practical tools for the computation of many physically interesting quantities. The context is provided by the mathematical theory of black holes, one of the most successful and relevant applications of general relativity. Topics covered include congruences of timelike and null geodesics, the embedding of spacelike, timelike and null hypersurfaces in spacetime, and the Lagrangian and Hamiltonian formulations of general relativity.

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"This book amply fulfills its promise: its coverage is sufficiently complete to enable a dedicated reader to undertake sophisticated calculations with confidence and it even provides a reference to a handy computer package for tensor manipulations... an elegant, thoughtful, useful and altogether commendable timely publication." Contemporary Physics

About the Author

Eric Poisson is Professor of Physics at the University of Guelph.

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