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Differential Forms and the Geometry of General Relativity

By Dray, Tevian

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Summary: "This is a brilliant book. Dray has an extraordinary knack of conveying the key mathematics and concepts with an elegant economy that rivals the expositions of the legendary Paul Dirac. It is pure pleasure to see far-reaching results emerge effortlessly from easy-to-follow arguments, and for simple examples to morph into generalizations. It is so refreshing to find a book that does not obscure the basics with unnecessary technicalities, yet can develop sophisticated formalism from very modest mathematical investments." -- Paul Davies, Regents' Professor and Director, Beyond Center for Fundamental Concepts in Science; Co-Director, Cosmology Initiative; and Principal Investigator, Center for the Convergence of Physical Science and Cancer Biology, Arizona State University "It took Einstein eight years to create General Relativity by carefully balancing his physical intuition and the rather tedious mathematical formalism at his disposal. Tevian Dray's presentation of the geometry of General Relativity in the elegant language of differential forms offers even beginners a novel and direct route to a deep understanding of the theory's core concepts and applications, from the geometry of black holes to cosmological models." --Jrgen Renn, Director,...



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