Manifolds, Tensors and Forms: An Introduction for Mathematicians and Physicists (Hardback)

By Paul Renteln

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2013. Hardback. Book Condition: New. 240 x 170 mm. Language: English . Brand New Book. Providing a succinct yet comprehensive treatment of the essentials of modern differential geometry and topology, this book s clear prose and informal style make it accessible to advanced undergraduate and graduate students in mathematics and the physical sciences. The text covers the basics of multilinear algebra, differentiation and integration on manifolds, Lie groups and Lie algebras, homotopy and de Rham cohomology, homology, vector bundles, Riemannian and pseudo-Riemannian geometry, and degree theory. It also features over 250 detailed exercises, and a variety of applications revealing fundamental connections to classical mechanics, electromagnetism (including circuit theory), general relativity and gauge theory. Solutions to the problems are available for instructors at.

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