

Tensors And Manifolds With Applications To Physics

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The purpose of this book is to provide core material in nonlinear analysis for mathematicians, physicists, engineers, and mathematical biologists. The main goal is to provide a working knowledge of manifolds, dynamical systems, tensors, and differential forms. Some applications to Hamiltonian mechanics, fluid mechanics, electromagnetism, plasma dynamics and control theory are given in Chapter ...

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In mathematics and physics, a tensor field assigns a tensor to each point of a mathematical space (typically a Euclidean space or manifold). Tensor fields are used in differential geometry, algebraic geometry, general relativity, in the analysis of stress and strain in materials, and in numerous applications in the physical sciences. As a tensor is a generalization of a scalar (a pure number ...

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It starts from the very beginning, analysis in Banach manifolds, following closely Dieudonne's famous chapter VIII, vol. I of Treatise on Analysis. With its "uncountable" examples and applications, it is an overwhelming improvement of Lang's book, which has a formal, dry style, not to mention complete absence of applications and examples.

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