
Description: The second edition of this text has sold over 6,000 copies since publication in 1986 and this revision will make it even more useful. This is the only book available that is approachable by “beginners” in this subject. It has become an essential introduction to the subject for mathematics students, engineers, physicists, and economists who need to learn how to apply these vital methods. It is also the only book that thoroughly reviews certain areas of advanced calculus that are necessary to understand the subject.

Line and surface integrals
Divergence and curl of vector fields

Contents: Introduction to Manifolds
Functions of Several Variables and Mappings
Differentiable Manifolds and Submanifolds
Vector Fields on a Manifold
Tensors and Tensor Fields on Manifolds
Integration on Manifolds
Differentiation on Riemannian Manifolds
Curvature
Index

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