

1. Record Nr.	UNINA9910794881703321
Autore	Geveci Tunc
Titolo	Advanced calculus : vector analysis / / Tunc Geveci
Pubbl/distr/stampa	New York, [New York] (222 East 46th Street, New York, NY 10017) : , : Momentum Press, , 2016
ISBN	1-60650-881-4
Descrizione fisica	1 online resource (70 pages) : illustrations
Disciplina	515
Soggetti	Calculus Vector analysis Libros electronicos.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Co-published with Cognella Academic Publishing. Includes index.
Nota di contenuto	1. Understanding vector fields, divergence, and curl vector fields -- The divergence and curl of a vector field -- 2. Understanding line integrals -- The integral of a scalar function with respect to arc length -- The line integral of a vector field in the plane -- The line integral as an integral with respect to arc length -- The differential form notation -- Curves in R^3 -- Precise definitions and proofs -- 3. Conservative vector fields -- The fundamental theorem for line integrals -- Conditions for a field to be conservative -- 4. Parametrized surfaces -- Parametrized surfaces -- Normal vectors, tangent planes and orientation -- The orientation of a surface and an expression for the normal vector (optional) -- Index.