General Vector and Dyadic Analysis. Applied Mathematics in Field Theory.

Description: Electrical Engineering/Electromagnetics Generalized Vector and Dyadic Analysis Applied Mathematics in Field Theory Second Edition A volume in the IEEE/OUP Series on Electromagnetic Wave Theory Donald G. Dudley, Series Editor Unmatched in its coverage of the topic, the first edition of Generalized Vector and Dyadic Analysis helped revolutionize the treatment of boundary-value problems, establishing itself as a classic in the field. This expanded, second edition is the most comprehensive book available on vector analysis founded upon the new method of symbolic vector. Generalized Vector and Dyadic Analysis presents a copious list of vector and dyadic identities, along with various forms of Green's theorems with derivations. Features include:

- New operational notations for divergence and curl
- Detailed derivations of theorems and identities
- Coverage of new topics, such as surface vector analysis and dyadic analysis
- In–depth treatment of invariance theorem for general symbolic expressions

Generalized Vector and Dyadic Analysis is an excellent general reference book for advanced undergraduate and graduate courses in the field. The subject matter is essential to learning electromagnetic theory and hydrodynamics. About the IEEE/OUP Series on Electromagnetic Wave Theory Formerly the IEEE Press Series on Electromagnetic Waves, this joint series between IEEE Press and Oxford University Press offers outstanding coverage of the field, with new titles as well as reprintings and revisions of recognized classics that maintain long-term archival significance in electromagnetic waves and applications. Designed specifically for graduate students, practicing engineers, and researchers, this series provides affordable volumes that explore electromagnetic waves and applications beyond the undergraduate level. See page ii of the front matter for a listing of books in this series.

Contents:

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Vector and Dyadic Algebra.
Coordinate Systems.
Line Integrals, Surface Integrals, and Volume Integrals.
Vector Analysis in Space.
Vector Analysis on Surface.
Vector Analysis of Transport Theorems.
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A Historical Study of Vector Analysis.
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