1. Record Nr. UNINA9910629591803321

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Titolo	Linear algebra : a course for physicists and engineers / / Arak M. Mathai, Hans J. Haubold
Pubbl/distr/stampa	Berlin : , : De Gruyter, , 2017
Descrizione fisica	1 online resource (467 pages)
Collana	De Gruyter Textbook
Disciplina	512.5
Soggetti	Algebras, Linear Algebras, Linear - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I. Vectors and matrices : module 1 -- Part II. Determinants and eigenvalues : module 2 -- Part III. Applications of matrices and determinants : module 3.
Sommario/riassunto	In order not to intimidate students by a too abstract approach, this textbook on linear algebra is written to be easy to digest by non-mathematicians. It introduces the concepts of vector spaces and mappings between them without dwelling on statements such as theorems and proofs too much. It is also designed to be self-contained, so no other material is required for an understanding of the topics covered. As the basis for courses on space and atmospheric science, remote sensing, geographic information systems, meteorology, climate and satellite communications at UN-affiliated regional centers, various applications of the formal theory are discussed as well. These include differential equations, statistics, optimization and some engineering-motivated problems in physics.