

BOOK REVIEW

Introduction to Linear Algebra, by I. FARKAS and M. FARKAS
Akadémiai Kiadó, Budapest 1975.

The text of the book is based on the lectures, held in Polytechnical University of Budapest, by the second author. "The aim of this book is to present the development of linear algebra from experience, that is to bridge the concrete structures (partly taught in high school) and the axiomatic treatment of the subject." The result of this aim is an excellent textbook for the first course in linear algebra. The subject is presented in a rigorous mathematical form however, it is very readable and motivated by examples in physics, economics and other areas of the application. The book is divided into six chapters: I Elementary Vector Algebra II. Complex Algebra III. Matrix Algebra IV. Systems of Linear Equations V. The Linear and the Euclidean Space VI. Linear Operators.

In the whole book, only the last two chapters deal with the usual material of linear algebra, in the remaining chapters an introductory, more concrete material is contained. The great merit of this book consists of this. The book fill the gap between calculus in concrete structures and the axiomatic treatment of linear algebra.

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