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## Basic Linear Algebra

By Gregor Olšavský

iUniverse, Inc. Paperback. Book Condition: New. Paperback. 318 pages. Dimensions: 10.9in. x 7.9in. x 0.8in. This book is an introductory linear algebra text. The topics are covered in the traditional order: linear systems, matrix algebra, vector spaces, linear transformations, orthogonality, and the eigenvalue/eigenvector problem. The book seeks to explain and discover the important concepts of linear algebra using well-chosen examples. Proofs of many important results are done if the proof can be accomplished in a succinct, straightforward fashion. There are over 100 worked-out examples in the text as well as a complete outline of every chapter and extensive review problems which test the students knowledge of the material covered in each chapter. There are over 1200 exercises in the text, which were created by the author with care to include exercises which resemble problems done in the text. Definitions are well marked and theorems are stated as briefly as possible in order to enhance the ability of the student to remember the result. In a slightly novel way, the answers to the odd problems are given directly next to the problem. Applications such as heat transfer, spring-mass systems, population dynamics, and systems of differential equations are sprinkled throughout the text. This...



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