



## Linear Algebra: A Pure Mathematical Approach

By Harvey E. Rose

Birkhäuser. Paperback. Condition: New. 264 pages. Dimensions: 9.4in. x 6.5in. x 0.6in. In algebra, an entity is called linear if it can be expressed in terms of addition, and multiplication by a scalar; a linear expression is a sum of scalar multiples of the entities under consideration. Also, an operation is called linear if it preserves addition, and multiplication by a scalar. For example, if  $A$  and  $B$  are  $2 \times 2$  real matrices,  $v$  is a (row) vector in the real plane, and  $c$  is a real number, then  $v(A B) = vA vB$  and  $(cv)A = c(vA)$ , that is, the process of applying a matrix to a vector is linear. Linear Algebra is the study of properties and systems which preserve these two operations, and the following pages present the basic theory and results of this important branch of pure mathematics. There are many books on linear algebra in the bookshops and libraries of the world, so why write another? A number of excellent texts were written about fifty years ago (see the bibliography); in the intervening period the style of mathematical presentation has changed. Also, some of the more modern texts have concentrated on applications both inside and outside mathematics....



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