

## Multilinear Algebra

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In mathematics, multilinear algebra extends the methods of linear algebra. Just as linear algebra is built on the concept of a vector and develops the theory of vector spaces, multilinear algebra builds on the concepts of  $p$ -vectors and multivectors with Grassmann algebra.

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A comprehensive and beautifully written tome on advanced topics in multilinear algebra. Admirable as a reference if not the ideal choice for a first read on the subject of tensor, symmetric, and exterior products and their algebras. An expansion of part of the author's very fine text on linear algebra.

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Multilinear Algebra 7. Chapter 1 Linear and multilinear functions 1.1 Dual space Let  $V$  be

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a finite-dimensional real vector space. The set of all linear functions on  $V$  will be denoted by  $V^*$ . Proposition 1.1.  $V^*$  is a vector space of the same dimension as  $V$ . Proof. One can add linear functions and multiply them by real numbers:  $(\alpha + \beta)(v) = \alpha(v) + \beta(v)$

## ~~Multilinear algebra, differential forms and Stokes' theorem~~

This set of notes is an activity-oriented introduction to the study of linear and multilinear algebra. The great majority of the results in beginning linear and multilinear are straightforward and can be verified by the thoughtful student. Indeed, that is the main point of these notes| to convince the beginner that the subject is accessible.

## ~~Elements of Linear and Multilinear Algebra~~

Linear and Multilinear Algebra, Volume 68, Issue 12 (2020) Original Articles . Article. Quasilinear convexity and quasilinear stars in the ray space of a supertropical quadratic form. Zur Izhakian & Manfred Knebusch. Pages: 2347-2389. Published online: 26 Mar 2019.

## ~~Linear and Multilinear Algebra: Vol 68, No 12~~

The main protagonists of this course are tensors and multilinear maps, just like the main protagonists of a Linear Algebra course are vectors and linear maps. Tensors are geometric objects that describe linear relations among objects in space, and are

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represented by multidimensional arrays of numbers:

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In mathematics, a tensor is an algebraic object that describes a (multilinear) relationship between sets of algebraic objects related to a vector space. Objects that tensors may map between include vectors and scalars, and even other tensors. Tensors can take several different forms - for example: scalars and vectors (which are the simplest tensors), dual vectors, multilinear maps between ...

~~Tensor — Wikipedia~~

Multilinear Algebra1 Tin-Yau Tam Department of Mathematics and Statistics 221 Parker Hall Auburn University AL 36849, USA tamtiny@auburn.edu November 30, 2011 1Some portions are from B.Y. Wang's Foundation of Multilinear Algebra (1985 in Chinese)

~~Multilinear Algebra — Auburn University~~

This book is built around the material on multilinear algebra which in chapters VI to IX of the second edition of Linear Algebra was included but excluded from the third edition. It is designed to be a sequel and companion volume to the third edition of Linear Algebra.

~~Multilinear Algebra by Greub, Werner H. (ebook)~~

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Bowen, R. M., Wang, C. C., 1976, Introduction to Vectors and Tensors: Linear and Multilinear Algebra, Plenum Press, New York, NY.

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