Chapter 4. Vector Space

Vector spaces with real scalars are called *real vector spaces* and those with complex scalars are called *complex vector spaces*. For now, we will be concerned exclusively with real vector spaces.

4.1 Real Vector Spaces

Let V be a nonempty set of objects, on which two operations are defined:

a) Addition
b) Multiplication by scalars

With the following properties:

1. If $\vec{u}$ and $\vec{v}$ are elements in V, then $\vec{u} + \vec{v}$ is in V. (V is closed under addition)
2. $\vec{u} + \vec{v} = \vec{v} + \vec{u}$, for all $\vec{u}$, $\vec{v}$ in V. (holds Commutative Law)
3. $\vec{u} + (\vec{v} + \vec{w}) = (\vec{u} + \vec{v}) + \vec{w}$ (holds Associative Law)
4. There is an object $\vec{0}$ in V, called the zero vector for V such that $O + \vec{u} = \vec{u} + O = \vec{u}$, for each $\vec{u}$ in V. (have Additive Identity)
5. For each $\vec{u}$ in V, there is an object $-\vec{u}$ in V, called a negative of $\vec{u}$, such that $\vec{u} + (-\vec{u}) = -\vec{u} + \vec{u} = O$. (have Additive Inverse)
6. If k is any scalar and $\vec{u}$ is any object in V, then $k\vec{u}$ is in V. (Closed under Scalar Multiplication).
7. $k(\vec{u} + \vec{v}) = k\vec{u} + k\vec{v}$
8. $(k + m)\vec{u} = k\vec{u} + m\vec{u}$
9. $k(m\vec{u}) = (km)\vec{u}$
10. $1\vec{u} = \vec{u}$ (have Multiplicative Identity)

then V is called a vector space and the objects in V *are vectors*.

Example 1: Let $V = R^2 = \{(x, y); x, y \in R\}$, prove that V is a vector space under the usual operations of addition and scalar multiplication defined by:

$$\vec{u} + \vec{v} = (u_1, u_2) + (v_1, v_2) = (u_1 + v_1, \vec{u}_2 + \vec{v}_2)$$

$$k\vec{u} = k(\vec{u}_1, \vec{u}_2) = (k\vec{u}_1, k\vec{u}_2)$$

Solution:

Vector Spaces Full Chapter Fybsc

Katrin Zwirglmaier

Vector Spaces Full Chapter Fybsc:

Topological Vector Spaces Alex P. Robertson,Wendy Robertson,1980 *Vector Spaces of Finite Dimension* Geoffrey Colin Shephard,1966 Of set theory and algebra Vector spaces and subspaces Linear transformations Dual vector spaces Multilinear algebra Norms and inner products Coordinates and matrices *Finite Dimensional Vector Spaces* Paul R. Halmos,1947-01-21 As a newly minted Ph D Paul Halmos came to the Institute for Advanced Study in 1938 even though he did not have a fellowship to study among the many giants of mathematics who had recently joined the faculty He eventually became John von Neumann s research assistant and it was one of von Neumann s inspiring lectures that spurred Halmos to write Finite Dimensional Vector Spaces The book brought him instant fame as an expositor of mathematics Finite Dimensional Vector Spaces combines algebra and geometry to discuss the three dimensional area where vectors can be plotted The book broke ground as the first formal introduction to linear algebra a branch of modern mathematics that studies vectors and vector spaces The book continues to exert its influence sixty years after publication as linear algebra is now widely used not only in mathematics but also in the natural and social sciences for studying such subjects as weather problems traffic flow electronic circuits and population genetics In 1983 Halmos received the coveted Steele Prize for exposition from the American Mathematical Society for his many graduate texts in mathematics dealing with finite dimensional vector spaces measure theory ergodic theory and Hilbert space *Vector Spaces and Matrices in Physics* M. C. Jain,2001 The theory of vector spaces and matrices is an essential part of the mathematical background required by physicists Most books on the subject however do not adequately meet the requirements of physics courses they tend to be either highly mathematical or too elementary Books that focus on mathematical theory may render the subject too dry to hold the interest of physics students while books that are more elementary tend to neglect some topics that are vital in the development of physical theories In particular there is often very little discussion of vector spaces and many books introduce matrices merely as a computational tool Vector Spaces and Matrices in Physics fills the gap between the elementary and the heavily mathematical treatments of the subject with an approach and presentation ideal for graduate level physics students After building a foundation in vector spaces and matrix algebra the author takes care to emphasize the role of matrices as representations of linear transformations on vector spaces a concept of matrix theory that is essential for a proper understanding of quantum mechanics He includes numerous solved and unsolved problems and enough hints for the unsolved problems to make the book self sufficient Developed through many years of lecture notes Vector Spaces and Matrices in Physics was written primarily as a graduate and post graduate textbook and as a reference for physicists Its clear presentation and concise but thorough coverage however make it useful for engineers chemists economists and anyone who needs a background in matrices for application in other areas **Analysis in Vector Spaces** Mustafa A. Akcoglu,Paul F. A. Bartha,Dzung Minh Ha,2011-09-09 A rigorous introduction to calculus in vector spaces The concepts and theorems of

advanced calculus combined withrelated computational methods are essential to understanding nearlyall areas of quantitative science Analysis in Vector Spacespresents the central results of this classic subject throughrigorous arguments discussions and examples The book aims tocultivate not only knowledge of the major theoretical results butalso the geometric intuition needed for both mathematicalproblem solving and modeling in the formal sciences The authors begin with an outline of key concepts terminology and notation and also provide a basic introduction to set theory the properties of real numbers and a review of linear algebra Anelegant approach to eigenvector problems and the spectral theoremsets the stage for later results on volume and integration Subsequent chapters present the major results of differential andintegral calculus of several variables as well as the theory ofmanifolds Additional topical coverage includes Sets and functions Real numbers Vector functions Normed vector spaces First and higher order derivatives Diffeomorphisms and manifolds Multiple integrals Integration on manifolds Stokes theorem Basic point set topology Numerous examples and exercises are provided in each chapter toreinforce new concepts and to illustrate how results can be appliedto additional problems Furthermore proofs and examples arepresented in a clear style that emphasizes the underlying intuitiveideas Counterexamples are provided throughout the book to warnagainst possible mistakes and extensive appendices outline theconstruction of real numbers include a fundamental result aboutdimension and present general results about determinants Assuming only a fundamental understanding of linear algebra andsingle variable calculus Analysis in Vector Spaces is anexcellent book for a second course in analysis for mathematics physics computer science and engineering majors at theundergraduate and graduate levels It also serves as a valuablereference for further study in any discipline that requires a firmunderstanding of mathematical techniques and concepts   **Topological Vector Spaces** H.H. Schaefer,Manfred P. H. Wolff,1999-06-24 Intended as a systematic text on topological vector spaces this text assumes familiarity with the elements of general topology and linear algebra Similarly the elementary facts on Hilbert and Banach spaces are not discussed in detail here since the book is mainly addressed to those readers who wish to go beyond the introductory level Each of the chapters is preceded by an introduction and followed by exercises which in turn are devoted to further results and supplements in particular to examples and counter examples and hints have been given where appropriate This second edition has been thoroughly revised and includes a new chapter on C and W algebras   **Vector Spaces; [and], Linear Transformations** Open University. Linear Mathematics Course Team,1971   **Topological Vector Spaces** N. Bourbaki,2013-12-01 This is a softcover reprint of the English translation of 1987 of the second edition of Bourbaki s Espaces Vectoriels Topologiques 1981 This second edition is a brand new book and completely supersedes the original version of nearly 30 years ago But a lot of the material has been rearranged rewritten or replaced by a more up to date exposition and a good deal of new material has been incorporated in this book all reflecting the progress made in the field during the last three decades Table of Contents Chapter I Topological vector spaces over a valued field Chapter II Convex sets and locally convex spaces Chapter III Spaces of continuous linear mappings

Chapter IV Duality in topological vector spaces Chapter V Hilbert spaces elementary theory   Vector Spaces and Matrices Robert M. Thrall,Leonard Tornheim,1970-01-01 Students receive the benefits of axiom based mathematical reasoning as well as a grasp of concrete formulations Suitable as a primary or supplementary text for college level courses in linear algebra 1957 edition   Introduction to Vector Spaces in Physics K. A. I. L. Wijewardena Gamalath,2007-03 Introduction to Fourier Transforms in Physics   **Introductory Theory of Topological Vector SPates** Yau-Chuen Wong,1992-08-25 This text offers an overview of the basic theories and techniques of functional analysis and its applications It contains topics such as the fixed point theory starting from Ky Fan s KKM covering and quasi Schwartz operators It also includes over 200 exercises to reinforce important concepts The author explores three fundamental results on Banach spaces together with Grothendieck s structure theorem for compact sets in Banach spaces including new proofs for some standard theorems and Helley s selection theorem Vector topologies and vector bornologies are examined in parallel and their internal and external relationships are studied This volume also presents recent developments on compact and weakly compact operators and operator ideals and discusses some applications to the important class of Schwartz spaces This text is designed for a two term course on functional analysis for upper level undergraduate and graduate students in mathematics mathematical physics economics and engineering It may also be used as a self study guide by researchers in these disciplines   *Linear Vector Spaces and Cartesian Tensors* James Kenyon Knowles,1998 Linear Vector Spaces and Cartesian Tensors is primarily concerned with the theory of finite dimensional Euclidian spaces It makes a careful distinction between real and complex spaces with an emphasis on real spaces and focuses on those elements of the theory that are especially important in applications to continuum mechanics The geometric content of the theory and the distinction between matrices and tensors are emphasized and absolute and component notation are both employed While the mathematics is rigorous the style is casual Chapter 1 deals with the basic notion of a linear vector space many examples of such spaces are given including infinite dimensional ones The idea of a linear transformation of a vector space into itself is introduced and explored in Chapter 2 Chapter 3 deals with linear transformations on finite dimensional real Euclidean spaces i e Cartesian tensors focusing on symmetric tensors orthogonal tensors and the interaction of both in the kinetically important polar decomposition theorem Chapter 4 exploits the ideas introduced in the first three chapters in order to construct the theory of tensors of rank four which are important in continuum mechanics Finally Chapter 5 concentrates on applications of the earlier material to the kinematics of continua to the notion of isotropic materials to the concept of scalar invariant functions of tensors and to linear dynamical systems Exercises and problems of varying degrees of difficulty are included at the end of each chapter Two appendices further enhance the text the first is a short list of mathematical results that students should already be familiar with and the second contains worked out solutions to almost all of the problems Offering many unusual examples and applications Linear Vector Spaces and Cartesian Tensors serves as an excellent text for advanced

undergraduate or first year graduate courses in engineering mathematics and mechanics Its clear writing style also makes this work useful as a self study guide   Topological Vector Spaces I Gottfried Köthe,1983 It is the author s aim to give a systematic account of the most im portant ideas methods and results of the theory of topological vector spaces After a rapid development during the last 15 years this theory has now achieved a form which makes such an account seem both possible and desirable This present first volume begins with the fundamental ideas of general topology These are of crucial importance for the theory that follows and so it seems necessary to give a concise account giving complete proofs This also has the advantage that the only preliminary knowledge required for reading this book is of classical analysis and set theory In the second chapter infinite dimensional linear algebra is considered in comparative detail As a result the concept of dual pair and linear topologies on vector spaces over arbitrary fields are intro duced in a natural way It appears to the author to be of interest to follow the theory of these linearly topologised spaces quite far since this theory can be developed in a way which closely resembles the theory of locally convex spaces It should however be stressed that this part of chapter two is not needed for the comprehension of the later chapters Chapter three is concerned with real and complex topological vector spaces The classical results of Banach s theory are given here as are fundamental results about convex sets in infinite dimensional spaces   **Lectures on Real and Complex Vector Spaces** Frank S. Cater,1966   *Topological Vector Spaces* Helmut H. Schaefer,1971 Intended as a systematic text on topological vector spaces this text assumes familiarity with the elements of general topology and linear algebra Similarly the elementary facts on Hilbert and Banach spaces are not discussed in detail here since the book is mainly addressed to those readers who wish to go beyond the introductory level Each of the chapters is preceded by an introduction and followed by exercises which in turn are devoted to further results and supplements in particular to examples and counter examples and hints have been given where appropriate   **Finite Dimensional Vector Spaces** Paul R (Paul Richard) 1916- Halmos,2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant   **Topological Vector Spaces and Distributions** John Horvath,2012-01-01 The most readable introduction to the theory of vector spaces available in English and possibly any other language J L B Cooper MathSciNet ReviewMathematically rigorous but user friendly this classic treatise discusses major modern contributions to the field of topological vector spaces The self contained treatment includes complete proofs

for all necessary results from algebra and topology Suitable for undergraduate mathematics majors with a background in advanced calculus this volume will also assist professional mathematicians physicists and engineers The precise exposition of the first three chapters covering Banach spaces locally convex spaces and duality provides an excellent summary of the modern theory of locally convex spaces The fourth and final chapter develops the theory of distributions in relation to convolutions tensor products and Fourier transforms Augmented with many examples and exercises the text includes an extensive bibliography Reprint of the Addison Wesley Publishing Company Reading Massachusetts 1966 edition   *FINITE-DIMENSIONAL VECTOR SPACES SECOND EDITION* Paul R. Halmos,1958   **Ordered Vector Spaces and Linear Operators** Romulus Cristescu,1976   **Topological Vector Spaces, Distributions and Kernels** ,1967-01-01 Topological Vector Spaces Distributions and Kernels

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