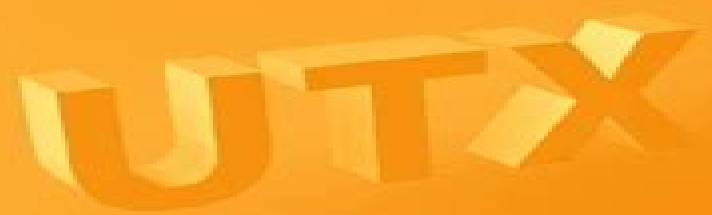


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B. Bapat, 2012-01-28 *Linear Algebra and Linear Models* comprises a concise and rigorous introduction to linear algebra required for statistics followed by the basic aspects of the theory of linear estimation and hypothesis testing The emphasis is on the approach using generalized inverses Topics such as the multivariate normal distribution and distribution of quadratic forms are included For this third edition the material has been reorganised to develop the linear algebra in the first six chapters to serve as a first course on linear algebra that is especially suitable for students of statistics or for those looking for a matrix theoretic approach to the subject Other key features include coverage of topics such as rank additivity inequalities for eigenvalues and singular values a new chapter on linear mixed models over seventy additional problems on rank the matrix rank is an important and rich topic with connections to many aspects of linear algebra such as generalized inverses idempotent matrices and partitioned matrices This text is aimed primarily at advanced undergraduate and first year graduate students taking courses in linear algebra linear models multivariate analysis and design of experiments A wealth of exercises complete with hints and solutions help to consolidate understanding Researchers in mathematics and statistics will also find the book a useful source of results and problems **Linear Algebra and Linear Models** R. B. Bapat, 2000 This book

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textbook helps advanced undergraduate students to grasp core concepts and reveals applications in mathematics and beyond

Higher-Dimensional Algebraic Geometry Olivier Debarre, 2013-03-09 Higher Dimensional Algebraic Geometry studies the classification theory of algebraic varieties This very active area of research is still developing but an amazing quantity of knowledge has accumulated over the past twenty years The author's goal is to provide an easily accessible introduction to the subject The book covers in the beginning preparatory and standard definitions and results moves on to discuss various aspects of the geometry of smooth projective varieties with many rational curves and finishes in taking the first steps towards Mori's minimal model program of classification of algebraic varieties by proving the cone and contraction theorems The book is well organized and the author has kept the number of concepts that are used but not proved to a minimum to provide a

mostly self contained introduction to graduate students and researchers *Introduction to Hyperbolic Geometry* Arlan Ramsay, Robert D. Richtmyer, 2013-03-09 This book is an introduction to hyperbolic and differential geometry that provides material in the early chapters that can serve as a textbook for a standard upper division course on hyperbolic geometry For that material the students need to be familiar with calculus and linear algebra and willing to accept one advanced theorem from analysis without proof The book goes well beyond the standard course in later chapters and there is enough material for an honors course or for supplementary reading Indeed parts of the book have been used for both kinds of courses Even some of what is in the early chapters would surely not be necessary for a standard course For example detailed proofs are given of the Jordan Curve Theorem for Polygons and of the decomposability of polygons into triangles These proofs are included for the sake of completeness but the results themselves are so believable that most students should skip the proofs on a first reading The axioms used are modern in character and more user friendly than the traditional ones The familiar real number system is used as an ingredient rather than appearing as a result of the axioms However it should not be thought that the geometric treatment is in terms of models this is an axiomatic approach that is just more convenient than the traditional ones

Galois Theory Joseph Rotman, 2012-12-06 The first edition aimed to give a geodesic path to the Fundamental Theorem of Galois Theory and I still think its brevity is valuable Alas the book is now a bit longer but I feel that the changes are worthwhile I began by rewriting almost all the text trying to make proofs clearer and often giving more details than before Since many students find the road to the Fundamental Theorem an intricate one the book now begins with a short section on symmetry groups of polygons in the plane an analogy of polygons and their symmetry groups with polynomials and their Galois groups can serve as a guide by helping readers organize the various definitions and constructions The exposition has been reorganized so that the discussion of solvability by radicals now appears later this makes the proof of the Abel Ruffini theorem easier to digest I have also included several theorems not in the first edition For example the Casus Irreducibilis is now proved in keeping with a historical interest lurking in these pages **Quantum Calculus** Victor Kac, Pokman

Cheung, 2012-12-06 Simply put quantum calculus is ordinary calculus without taking limits This undergraduate text develops two types of quantum calculi the q calculus and the h calculus As this book develops quantum calculus along the lines of traditional calculus the reader discovers with a remarkable inevitability many important notions and results of classical mathematics This book is written at the level of a first course in calculus and linear algebra and is aimed at undergraduate and beginning graduate students in mathematics computer science and physics It is based on lectures and seminars given by MIT Professor Kac over the last few years at MIT Fourier and Wavelet Analysis George Bachmann, Lawrence

Narici, EDWARD BECKENSTEIN, 2012-12-06 globalized Fejer's theorem he showed that the Fourier series for any $f \in L^1$ converges C_1 to f a.e The desire to do this was part of the reason that Lebesgue invented his integral the theorem mentioned above was one of the first uses he made of it Sec 4.18 Denjoy with the same motivation extended the integral even

further Concurrently the emerging point of view that things could be decomposed into waves and then reconstituted infused not just mathematics but all of science It is impossible to quantify the role that this perspective played in the development of the physics of the nineteenth and twentieth centuries but it was certainly great Imagine physics without it We develop the standard features of Fourier analysis Fourier series Fourier transform Fourier sine and cosine transforms We do NOT do it in the most elegant way Instead we develop it for the reader who has never seen them before We cover more recent developments such as the discrete and fast Fourier transforms and wavelets in Chapters 6 and 7 Our treatment of these topics is strictly introductory for the novice Wavelets for idiots To do them properly especially the applications would take at least a whole book

Classical Theory of Algebraic Numbers Paulo Ribenboim, 2013-11-11 Gauss created the theory of binary quadratic forms in *Disquisitiones Arithmeticae* and Kummer invented ideals and the theory of cyclotomic fields in his attempt to prove Fermat's Last Theorem These were the starting points for the theory of algebraic numbers developed in the classical papers of Dedekind Dirichlet Eisenstein Hermite and many others This theory enriched with more recent contributions is of basic importance in the study of diophantine equations and arithmetic algebraic geometry including methods in cryptography This book has a clear and thorough exposition of the classical theory of algebraic numbers and contains a large number of exercises as well as worked out numerical examples The Introduction is a recapitulation of results about principal ideal domains unique factorization domains and commutative fields Part One is devoted to residue classes and quadratic residues In Part Two one finds the study of algebraic integers ideals units class numbers the theory of decomposition inertia and ramification of ideals Part Three is devoted to Kummer's theory of cyclotomic fields and includes Bernoulli numbers and the proof of Fermat's Last Theorem for regular prime exponents Finally in Part Four the emphasis is on analytical methods and it includes Dirichlet's Theorem on primes in arithmetic progressions the theorem of Chebotarev and class number formulas A careful study of this book will provide a solid background to the learning of more recent topics

Sheaves in Geometry and Logic Saunders MacLane, Ieke Moerdijk, 1994-10-27 Sheaves arose in geometry as coefficients for cohomology and as descriptions of the functions appropriate to various kinds of manifolds Sheaves also appear in logic as carriers for models of set theory This text presents topos theory as it has developed from the study of sheaves Beginning with several examples it explains the underlying ideas of topology and sheaf theory as well as the general theory of elementary toposes and geometric morphisms and their relation to logic

Intuitive Combinatorial Topology V.G. Boltyanskii, V.A. Efremovich, 2013-03-09 Topology is a relatively young and very important branch of mathematics It studies properties of objects that are preserved by deformations twistings and stretchings but not tearing This book deals with the topology of curves and surfaces as well as with the fundamental concepts of homotopy and homology and does this in a lively and well motivated way There is hardly an area of mathematics that does not make use of topological results and concepts The importance of topological methods for different areas of physics is also beyond doubt They are used in field

theory and general relativity in the physics of low temperatures and in modern quantum theory The book is well suited not only as preparation for students who plan to take a course in algebraic topology but also for advanced undergraduates or beginning graduates interested in finding out what topology is all about The book has more than 200 problems many examples and over 200 illustrations

A First Course in Harmonic Analysis Anton Deitmar, 2013-04-17 This book is intended as a primer in harmonic analysis at the undergraduate level All the central concepts of harmonic analysis are introduced without too much technical overload For example the book is based entirely on the Riemann integral instead of the more demanding Lebesgue integral Furthermore all topological questions are dealt with purely in the context of metric spaces It is quite surprising that this works Indeed it turns out that the central concepts theory can be explained using very little of this beautiful and useful technical background The first aim of this book is to give a lean introduction to Fourier analysis leading up to the Poisson summation formula The second aim is to make the reader aware of the fact that both principal incarnations of Fourier Theory the Fourier series and the Fourier transform are special cases of a more general theory arising in the context of locally compact abelian groups The third goal of this book is to introduce the reader to the techniques used in harmonic analysis of noncommutative groups These techniques are explained in the context of matrix groups as a principal example

Finite Möbius Groups, Minimal Immersions of Spheres, and Moduli Gabor Toth, 2012-12-06 Spherical soap bubbles isometric minimal immersions of round spheres into round spheres or spherical immersions for short belong to a fast growing and fascinating area between algebra and geometry This theory has rich interconnections with a variety of mathematical disciplines such as invariant theory convex geometry harmonic maps and orthogonal multiplications In this book the author traces the development of the study of spherical minimal immersions over the past 30 plus years including Takahashi's 1966 proof regarding the existence of isometric minimal immersions DoCarmo and Wallach's study of the uniqueness of the standard minimal immersion in the seventies and more recently he examines the variety of spherical minimal immersions which have been obtained by the equivariant construction as $SU(2)$ orbits first used by Mashimo in 1984 and then later by DeTurck and Ziller in 1992 In trying to make this monograph accessible not just to research mathematicians but mathematics graduate students as well the author included sizeable pieces of material from upper level undergraduate courses additional graduate level topics such as Felix Klein's classic treatise of the icosahedron and a valuable selection of exercises at the end of each chapter

Introduction to the Mori Program Kenji Matsuki, 2013-04-17 Mori's Program is a fusion of the so called Minimal Model Program and the Iitaka Program toward the biregular and or birational classification of higher dimensional algebraic varieties The author presents this theory in an easy and understandable way with lots of background motivation Prerequisites are those covered in Hartshorne's book Algebraic Geometry This is the first book in this extremely important and active field of research and will become a key resource for graduate students wanting to get into the area

A Course in Model Theory Bruno Poizat, 2012-12-06 Can we reproduce

the inimitable or give a new life to what has been affected by the weariness of existence Folks what you have in your hands is a translation into English of a book that was first published in 1985 by its author that is myself at the end of an editorial adventure about which you will find some details later It was written in a dialect of Latin that is spoken as a native language in some parts of Europe Canada the U S A the West Indies and is used as a language of communication between several countries in Africa It is also sometimes used as a language of communication between the members of a much more restricted community mathematicians This translation is indeed quite a faithful rendering of the original Only a final section on the reals has been added to Chapter 6 plus a few notes now and then On the title page you see an inscription in Arabic letters with a transcription in the Latin some poorly informed people say English alphabet below I designed the calligraphy myself

A Textbook of Graph Theory R. Balakrishnan, K. Ranganathan, 2012-11-11 Graph theory has experienced a tremendous growth during the 20th century One of the main reasons for this phenomenon is the applicability of graph theory in other disciplines such as physics chemistry psychology sociology and theoretical computer science This book aims to provide a solid background in the basic topics of graph theory It covers Dirac's theorem on k connected graphs Harary Nash-Williams's theorem on the hamiltonicity of line graphs Toida McKee's characterization of Eulerian graphs the Tutte matrix of a graph Fournier's proof of Kuratowski's theorem on planar graphs the proof of the nonhamiltonicity of the Tutte graph on 46 vertices and a concrete application of triangulated graphs The book does not presuppose deep knowledge of any branch of mathematics but requires only the basics of mathematics It can be used in an advanced undergraduate course or a beginning graduate course in graph theory

Lectures on Analysis on Metric Spaces Juha Heinonen, 2012-12-06 Analysis in spaces with no a priori smooth structure has progressed to include concepts from the first order calculus In particular there have been important advances in understanding the infinitesimal versus global behavior of Lipschitz functions and quasiconformal mappings in rather general settings abstract Sobolev space theories have been instrumental in this development The purpose of this book is to communicate some of the recent work in the area while preparing the reader to study more substantial related articles The material can be roughly divided into three different types classical standard but sometimes with a new twist and recent The author first studies basic covering theorems and their applications to analysis in metric measure spaces This is followed by a discussion on Sobolev spaces emphasizing principles that are valid in larger contexts The last few sections of the book present a basic theory of quasisymmetric maps between metric spaces Much of the material is relatively recent and appears for the first time in book format There are plenty of exercises The book is well suited for self study or as a text in a graduate course or seminar The material is relevant to anyone who is interested in analysis and geometry in nonsmooth settings

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