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prominent russian mathematician's concise well written exposition considers n dimensional spaces linear and bilinear forms linear transformations canonical form of an arbitrary linear transformation and an introduction to tensors while not designed as an introductory text the book's well chosen topics brevity of presentation and the author's reputation will recommend it to all students teachers and mathematicians working in this sector

the unifying theme of this collection of papers by the very creative russian mathematician i m gelfand and his co workers is the representation theory of groups and lattices two of the papers were inspired by application to theoretical physics the others are pure mathematics though all the papers will interest mathematicians at quite opposite ends of the subject dr g segal and professor c m ringel have written introductions to the papers which explain the background put them in perspective and make them accessible to those with no specialist knowledge in the area

with a substantial amount of new material the handbook of linear algebra second edition provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use format it guides you from the very elementary aspects of the subject to the frontiers of current research along with revisions and updates throughout the second edition of this bestseller includes 20 new chapters new to the second edition separate chapters on schur complements additional types of canonical forms tensors matrix polynomials matrix equations special types of matrices generalized inverses matrices over finite fields invariant subspaces representations of quivers and spectral sets new chapters on combinatorial matrix theory topics such as tournaments the minimum rank problem and spectral graph theory as well as numerical linear algebra topics including algorithms for structured matrix computations stability of structured matrix computations and nonlinear eigenvalue problems more chapters on applications of linear algebra including epidemiology and quantum error correction new chapter on using the free and open source software system sage for linear algebra additional sections in the chapters on sign pattern matrices and applications to geometry conjectures and open problems in most chapters on advanced topics highly praised as a valuable resource for anyone who uses linear algebra the first edition covered virtually all aspects of linear algebra and its applications this

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a concise handbook of mathematics physics and engineering sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education the authors pay special attention to issues that many engineers and students

this volume consists of a collection of articles from experts with a rich research and educational experience the contributors of this volume are y benyamini m gonzález v mller s reich e matouskova a j zaslavski and a r palacios each of their work is invaluable for example benyamini s is the only updated survey of the exciting and active area of the classification of banach spaces under uniformly continuous maps while gonzález s article is a pioneer introduction to the theory of local duality for banach spaces

this collection of 35 papers resulting from the 1984 ams ims siam summer research conference displays the cross developments between linear algebra including numerical linear algebra and systems and control theory linear algebraists will see how some beautiful and strong results of control and systems theory can be derived using the concepts of linear algebra control and systems theorists will find numerically viable algorithms which can be developed for some important control problems a full appreciation of the material requires an advanced course in linear algebra a basic course in matrix computation and a first course in control theory

proceedings of the ascona meeting june 1996

this volume contains the proceedings of the international conference on algebra and related topics held from july 2 5 2018 at mohammed v university rabat morocco linear reserver problems demand the characterization of linear maps between algebras that leave invariant certain properties or certain subsets or relations one of the most intractable unsolved problems is kaplansky s conjecture every surjective unital invertibility preserving linear map between two semisimple banach algebras is a jordan homomorphism recently there has been an upsurge of interest in nonlinear preservers where the maps studied are no longer assumed linear but instead a weak

algebraic condition is somehow involved through the preserving property this volume contains several articles on various aspects of preservers including such topics as jordan isomorphisms aluthge transform joint numerical radius on c c algebras adverteble complete algebras and gelfand mazur algebras the volume also contains a survey on recent progress on local spectrum preserving maps several articles in the volume present results about weighted spaces and algebras of holomorphic or harmonic functions including biduality in weighted spaces of analytic functions interpolation in the analytic wiener algebra and weighted composition operators on non locally convex weighted spaces

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