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Here is an updated version of the \$domain website which many of our East European book trade customers have been using for some time now, more or less regularly. We have just introduced certain upgrades and changes which

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should be interesting for you. Please remember that our website does not replace publisher websites, there would be no point in duplicating the information. Our idea is to present you with tools that might be useful in your work with individual, institutional and corporate customers. Many of the features have been introduced at specific requests from some of you. Others are still at preparatory stage and will be implemented soon.

### **Matrix Groups For Undergraduates**

Matrix Groups for Undergraduates is concrete and example-driven, with geometric motivation and rigorous proofs. The story begins and ends with the rotations of a globe. In between, the author combines rigor and intuition to describe basic objects of Lie theory: Lie algebras, matrix exponentiation, Lie brackets, and maximal tori.

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Matrix Groups for Undergraduates is concrete and example-driven, with geometric motivation and rigorous proofs. The story begins and ends with the rotations of a globe. In between, the author combines rigor and intuition to describe the basic objects of Lie theory: Lie algebras, matrix exponentiation, Lie brackets, maximal tori, homogeneous spaces, and roots.

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This textbook brings them into the undergraduate curriculum. It makes an excellent one-semester course for students familiar with linear and abstract algebra and prepares them for a graduate course on Lie groups. Matrix Groups for Undergraduates is concrete and example-driven, with geometric motivation and rigorous proofs. The story begins and ends with the rotations of a globe.

## **Matrix Groups for Undergraduates:**

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## **Second Edition**

DOI: 10.1090/stml/079 Corpus ID: 126078858. Matrix Groups for Undergraduates: Second Edition @inproceedings{Tapp2016MatrixGF, title={Matrix Groups for Undergraduates: Second Edition}, author={Kristopher Tapp}, year={2016} }

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Matrix groups touch an enormous spectrum of the mathematical arena.

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### **Matrix Groups for Undergraduates: Second Edition ...**

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CORRECTIONS TO "MATRIX GROUPS FOR UNDERGRADUATES" KRISTOPHER TAPP I would like to thank to several readers who alerted me to the errors below, including Michael Maltenfort, Brian Hall,

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Jeff Nunemacher, Andreas Arvanitoyeorgos and Stefan Natu. •  
(Page 12) Equation 1.3 is only true for  $K \in \{R,C\}$ .

## **CORRECTIONS TO “MATRIX GROUPS FOR UNDERGRADUATES”**

Matrix groups are defined and a number of standard examples are discussed, including the unimodular groups  $SL(n, K)$ , orthogonal  $O(n)$  and special orthogonal groups  $SO(n)$ , unitary  $U(n)$  and special unitary groups  $SU(n)$ , as well as more exotic examples such as Lorentz groups and symplectic groups.

## **An introduction to matrix groups and their applications ...**

Matrix groups for undergraduates /  
Kristopher Tapp. p. cm. - (Student mathematical library, ISSN 1520-9121 ; v. 29) Includes bibliographical references and index. ISBN 0-8218-3785-0 (pbk.: acid-free paper) 1. Matrix groups. 2. Linear algebraic groups. 3. Compact groups. 4. Lie

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groups. I. Title. II. Series. QA184.2.T37  
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The back cover of Matrix Groups for Undergraduates says it is a text for a one-semester upper-level undergraduate course which will assist in preparing students for graduate school. A course based on this text would indeed be helpful to many students. Tapp's book weighs in at a very slender 169 pages.

## **Matrix Groups for Undergraduates |**

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## **Mathematical ...**

MATRIX GROUPS 5 • We now show that  $TG$  is closed under scalar multiplication. If  $\gamma(0)$  is in  $TG$  and  $r$  is in  $R$  consider the curve  $\sigma(t) = \gamma(rt)$ . Again it is clear that  $\sigma(0) = \gamma(0) = I$  and  $\gamma$  is differentiable at 0 hence so is  $\sigma$  and  $\sigma'(0)$  belongs to  $TG$ . But  $\sigma'(0) = r\gamma'(0)$  so  $TG$  is closed under scalar multiplication. • Thus  $TG$  is a subspace of  $M_n(k)$  and since the latter is finite ...

## **Contents Preliminaries: Groups, Rings, Fields, and Skew ...**

Summary: "Matrix groups touch an enormous spectrum of the mathematical arena. This textbook brings them into the undergraduate curriculum. It makes an excellent one semester course for students familiar with linear and abstract algebra and prepares them for a graduate course on Lie groups."

## **Matrix groups for undergraduates (Book, 2005) [WorldCat.org]**

Matrix groups touch an enormous



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## **Sell, Buy or Rent Matrix Groups for Undergraduates ...**

Baker suggests that a 30-lecture course to advanced undergraduates might center around Chapters 1, 3, and 7. The main result in Chapter 7 is the same as the one highlighted by Howe, that matrix groups are Lie groups. The book is designed so that instructors can "quarry"

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the remaining chapters in different ways to round out their courses.

## **Matrix Groups: An Introduction to Lie Group Theory ...**

Matrix Groups for Undergraduates is concrete and example-driven, with geometric motivation and rigorous proofs. The story begins and ends with the rotations of a globe. In between, the author...

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