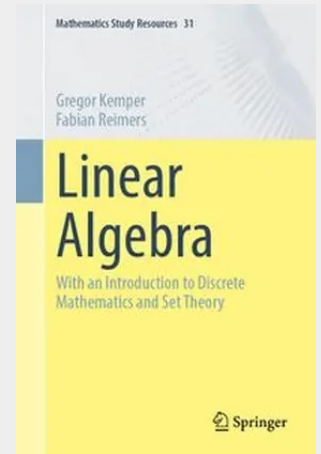


Linear Algebra

With an Introduction to Discrete Mathematics and Set Theory

This book is ideally suited as a companion text for students and as a guide for instructors planning courses in linear algebra. It is distinguished by its precise presentation, free of unnecessary digressions. A distinctive feature of the book is its combination of three interconnected "narrative threads": linear algebra as the main thread, discrete mathematics, and set theory. The main thread can be studied independently of the other two, each of which provides a solid introduction to its respective area. This structure allows the secondary threads either to be integrated into a linear algebra course or to serve as an optional supplement for enrichment or seminar work. With more than 380 exercises, the book offers ample opportunity for active engagement with every topic. The exercises range from routine problems closely related to the text to typical exam questions and more substantial project-based assignments.

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