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linear algebra is the study of vectors and linear functions. in broad terms, vectors are things you can add and linear functions are functions of vectors that respect vector addition. the goal of this text is to teach you to organize information about vector spaces in a way that makes problems involving linear functions of many variables easy.

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troduction to abstract linear algebra for undergraduates, possibly even ?rst year students, specializing in mathematics. linear algebra is one of the most applicable areas of mathematics. it is used by the pure mathematician and by the mathematically trained scien-tists of all disciplines. this book is directed more at the former audience

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Linear Algebra I - Lectures Notes - Spring 2013

tools from linear algebra. these notes of linear algebra course emphasize the mathematical rigour over the applications, contrary to many books on linear algebra for engineers. my main goal in writing these notes was to give to the student a concise overview of the main concepts,ideas and results that usually are covered in the rst course on ...

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of engineering computational problems, including systems of linear equations, linear vector spaces, matrices, least squares problems, fourier series, and eigenvalue problems. in general,

the mix of topics and level of presentation are aimed at upper-level undergraduates and rst-year graduate students in mechanical, aerospace, and civil engineering.

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