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Math 51100: Linear Algebra With Applications (class No: 15789)

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roduction 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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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 first-year graduate students in mechanical, aerospace, and civil engineering.

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