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Linear Algebra with Applications Fourth Edition Otto Bretscher Colby College Prentice Hall is an imprint of Upper Saddle River, New Jersey 07458

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Topics in linear algebra which arise frequently in applications, especially in the analysis of large data sets: linear equations, eigenvalue problems, linear differential equations, principal component analysis, singular value decomposition, data mining methods including frequent pattern analysis, clustering, outlier detection, classification

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Introduction to abstract linear algebra for undergraduates, possibly even first 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 scientists of all disciplines This book is

directed more at the former audience

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The Johnson-Lindenstrauss lemma is optimal for linear ...

The Johnson-Lindenstrauss lemma is optimal for linear dimensionality reduction Kasper Green Larsen Jelani Nelson November 1, 2014 Abstract For any $n > 1$ and $0 < \epsilon < 1/2$, we show the existence of an $nO(1)$ -point subset X of \mathbb{R}^n such that any linear map from (X, ℓ_2) to ℓ_m with distortion at most $1 + \epsilon$ must have $m = (\min_{f \in \mathcal{F}} \|f\|_2 \log n)^2$ Our

Linear Programming: Theory and Applications

explored its applications [1] This paper will cover the main concepts in linear programming, including examples when appropriate First, in Section 1 we will explore simple properties, basic definitions and theories of linear programs In order to illustrate some applications of linear programming, we will explain simplified "real-world"