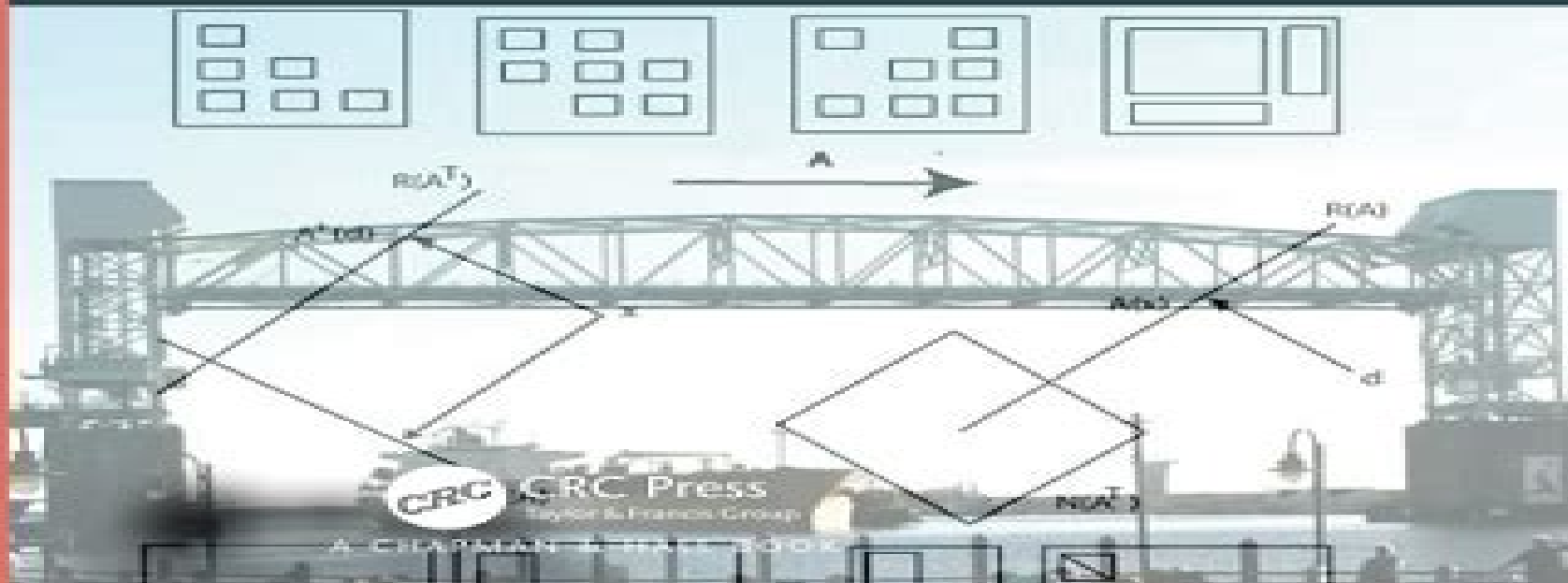


COMPUTATIONAL LINEAR ALGEBRA

with Applications
and MATLAB® Computations

Robert E. White



Computational Linear Algebra With Models

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Computational Linear Algebra With Models:

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Courses on linear algebra and numerical analysis need each other. Often NA courses have some linear algebra topics and LA courses mention some topics from numerical analysis scientific computing. This text merges these two areas into one introductory undergraduate course. It assumes students have had multivariable calculus. A second goal of this text is to demonstrate the intimate relationship of linear algebra to applications computations. A rigorous presentation has been maintained. A third reason for writing this text is to present in the first half of the course the very important topic on singular value decomposition SVD. This is done by first restricting consideration to real matrices and vector spaces. The general inner product vector spaces are considered starting in the middle of the text. The text has a number of applications. These are to motivate the student to study the linear algebra topics. Also the text has a number of computations. MATLAB is used but one could modify these codes to other programming languages. These are either to simplify some linear algebra computation or to model a particular application.

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