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NUMERICAL LINEAR ALGEBRALloyd N. Trefethen and David Bau, IIIxiii+361 pagesSIAM, 1997. David Bau (currently at Google) and I published a graduate textbook on numerical linear algebra in 1997. Our aims in this book are beauty, depth of insight, and brevity. The text is split into forty lectures, each about eight pages long. It is based on the course I taught repeatedly at MIT and Cornell during 1984-1997.

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we arrive at what Gilbert Strang calls the Fundamental Theorem of Linear Algebra: $m = \text{Ran}(A) \cup \text{Ker}(A^T)$, $\text{Ran}(A) \perp \text{Ker}(A^T)$ $n = \text{Ran}(A^T) \cup \text{Ker}(A)$, $\text{Ran}(A^T) \perp \text{Ker}(A)$.

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In the field of numerical analysis, numerical linear algebra is an area to study methods to solve problems in linear algebra by numerical computation.The following problems will be considered in this area: Numerically solving a system of linear equations.; Numerically solving an eigenvalue problem for a given matrix.; Computing approximate values of a matrix-valued function.

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