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lectures, each about eight pages long. It is based on the
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we arrive at what Gilbert Strang calls the Fundamental
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 $\text{Ker}(A \quad) n = \text{Ran}(A \quad) \quad \text{Ker}(A), \text{Ran}(A \quad) \quad \text{Ker}(A).$

Lecture Notes CAAM 453

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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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