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

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