

ORTHOGONAL PROJECTION OF VECTOR L

ON VECTOR a = 11611 GSO = 9

LENGTH OF VECTOR L

$$A = \|f\| \cos \theta$$

$$= \frac{\|a\|\|f\| \cos \theta}{\|a\|}$$

$$= \frac{af}{\|a\|}$$

$$t_{11} = \frac{a}{\|a\|} = \frac{a^{T}t}{\|a\|^{2}}a$$

$$= \left(\frac{a^{T}t}{a^{T}a}\right)a$$

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