

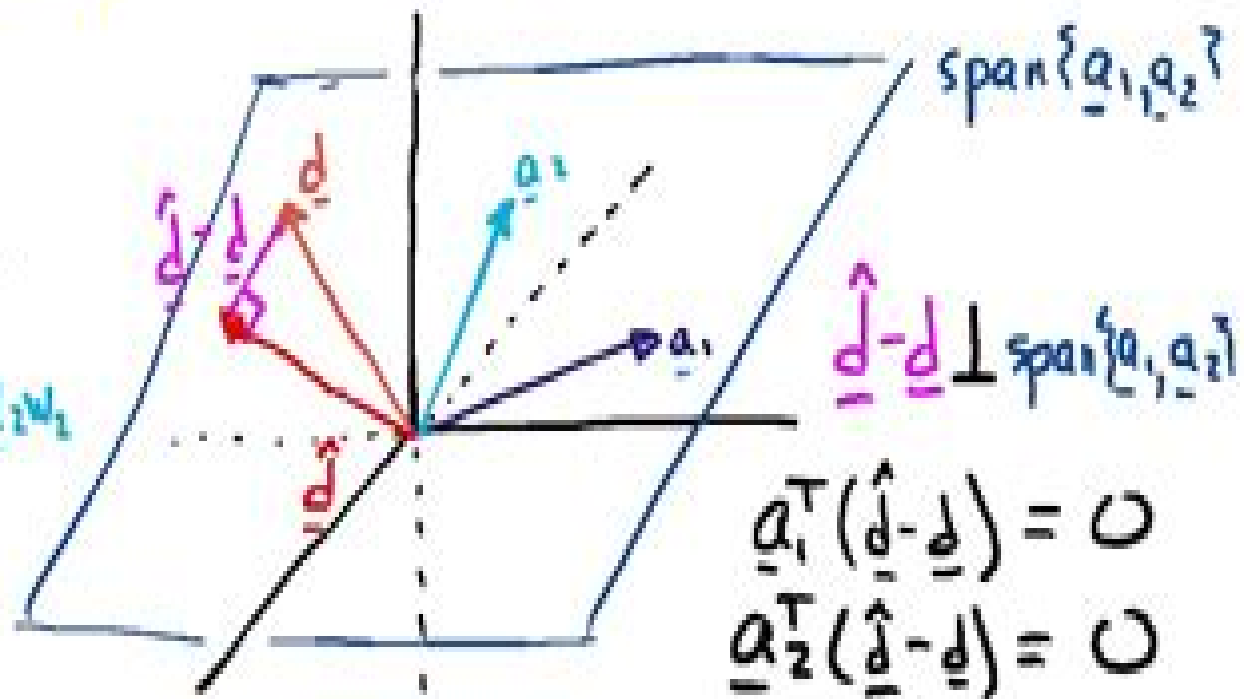
Orthogonality: $\underline{A} \perp (\hat{\underline{d}} - \underline{d})$

3

$$N=3, P=2$$

$$\underline{A} = [\underline{a}_1 \quad \underline{a}_2] \quad \underline{d}$$

$$\hat{\underline{d}} = \underline{A}\underline{w} = \underline{a}_1 w_1 + \underline{a}_2 w_2$$



In general

$$\underline{A}^T (\hat{\underline{d}} - \underline{d}) = \underline{0} \quad \text{"orthogonality condition"}$$

$$\text{Solution: } \underline{A}^T (\underline{A}\underline{w} - \underline{d}) = \underline{0} \Rightarrow \underline{A}^T \underline{A} \underline{w} = \underline{A}^T \underline{d}$$

$$(\underline{A}^T \underline{A}) (\underline{A}^T \underline{A})^{-1} \underline{A}^T \underline{A} \underline{w} = (\underline{A}^T \underline{A})^{-1} \underline{A}^T \underline{d} \Rightarrow \underline{w} = (\underline{A}^T \underline{A})^{-1} \underline{A}^T \underline{d} \quad (\text{matrix inverse})$$

Solving Least Squares Problems

Lauren Gardner



Solving Least Squares Problems:

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Solving Least Squares Problems**

In a global inundated with monitors and the cacophony of immediate transmission, the profound energy and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the regular assault of sound and distractions. However, nestled within the musical pages of **Solving Least Squares Problems**, a captivating perform of literary brilliance that impulses with fresh thoughts, lies an wonderful trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that magical opus instructions viewers on a psychological odyssey, gently exposing the latent potential and profound influence stuck within the complicated internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key styles, dissect its captivating writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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