

frobenius norm

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So, I have been doing some reading... and have encountered something that I am confused about...

I have read that if E is an outer product, $E=uv^*$, then $\|E\|_2 = (\|u\|_2)(\|v\|_2)$. (Where the * represents the conjugate transpose, and $\|x\|$ represents the norm).

So, my question is: is the same true for the Frobenius norm? I.e. $\|E\|_F = (\|u\|_F)(\|v\|_F)$?

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