

sandipan_dey >

<u>Course</u> <u>Progress</u> <u>Dates</u> <u>Discussion</u> <u>Syllabus</u> <u>Outline</u> <u>laff routines</u> <u>Community</u>

☆ Course / Week 10: Vector Spaces, Orthogonality, and Lin... / 10.3 Orthogonal Vectors ...

()

Next >

10.3.3 Fundamental Spaces

□ Bookmark this page

Previous

■ Calculator

10.3.3 Fundamental Spaces

10.3.3 Part 1



Start of transcript. Skip to the end.

Dr. Robert van de Geijn: So now we have arrived

at one of the most important insights in linear algebra.

And it's the insight that when you have a matrix

A that maps vectors from Rn to vectors of Rm, then

there are four fundamental spaces that

0:00 / 0:00

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Reading Assignment

O points possible (ungraded) Read Unit 10.3.3 of the notes. [LINK]





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2

? "Point" of row/column/left null space

I'm not sure the best place to ask this, but I don't really understand what the "point" or row/column/left null space is? What information is obtain...

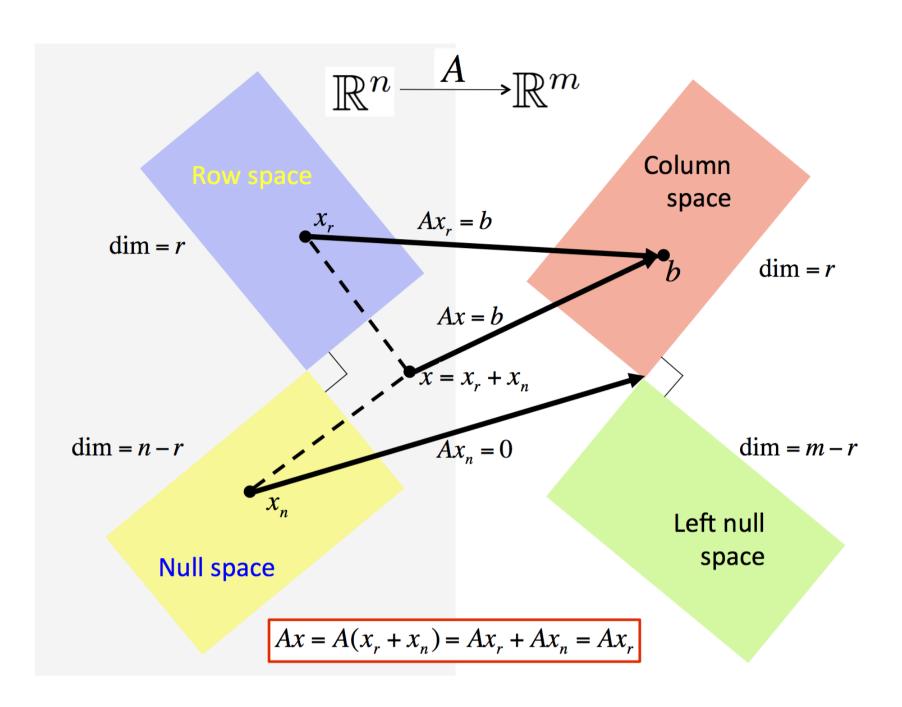
☑ Question on the proof of theorem 10.6

I was wondering, could you give us a detailed explanation (as suggested by you, use proof by contradiction) of why the set of vectors {v_0, ...,

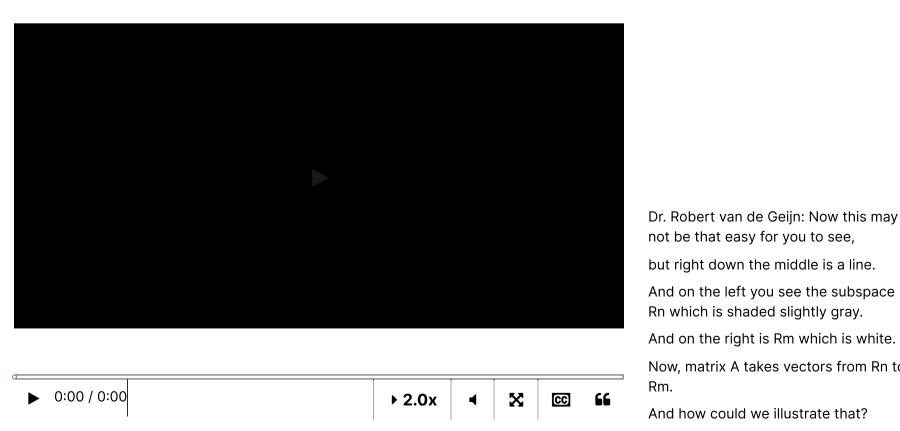
▼ Row space and left null space

Have those topics been covered previously in this course? I learnt that transposes themselves have some theoretical properties (when we talk a...

Download the PowerPoint presentation for the Fundamental Spaces picture: Spaces.pptx



10.3.3 Part 2



Start of transcript. Skip to the end.

not be that easy for you to see, but right down the middle is a line. And on the left you see the subspace Rn which is shaded slightly gray. And on the right is Rm which is white. Now, matrix A takes vectors from Rn to

And how could we illustrate that?

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Previous

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