

Intro to Performance Indices

Student Notes

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Lesson 1: What are Performance Indices Define material performance:

What is a material's function related to?

Why wouldn't titanium work for a rock climbing rope?

Define performance indices

Lesson 2: Deriving Performance Indices

Following along with the lesson video, derive the performance index for a stiffness-limited tie in tension

Lesson 3: Using Performance Indices in Ansvs Granta EduPack

Log scales for our charts is mentioned frequently. Why is this so important when using performance indices?
What benefits can you see for putting performance indices on the chart axis (either by using the
advanced function or the Performance Index Finder tool)?
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advanced function of the Performance index Finder (odl):
If you have access to Granta EduPack, give these methods a try!

Lesson 4: Materials Selection of a Longboard Write out the results of the translation step for the longboard deck here:

Following along with the lesson video, derive the performance index for this case:

