

## **Mechanical domain resources:**

### **Understanding material properties**

<https://youtube.com/playlist?list=PLEYqyyrm-hQ1BC1Meqj7DMloPSS7TTy16>

<https://www.youtube.com/watch?v=PaGJwOPg2kU> (metals)

### **Introduction to manufacturing process:**

[https://www.youtube.com/watch?v=Um\\_g8sQ\\_p3Y](https://www.youtube.com/watch?v=Um_g8sQ_p3Y)

[https://youtube.com/playlist?list=PLJYULZTSGC\\_Nn3RndNG6FqctPWiUBOZlq](https://youtube.com/playlist?list=PLJYULZTSGC_Nn3RndNG6FqctPWiUBOZlq)

book:

[https://www.academia.edu/38175528/Manufacturing\\_Engineering\\_and\\_Technology\\_6th\\_Edition\\_Serope\\_Kalpakjian\\_Stephen\\_Schmid\\_pdf](https://www.academia.edu/38175528/Manufacturing_Engineering_and_Technology_6th_Edition_Serope_Kalpakjian_Stephen_Schmid_pdf)

### **Strength of material**

<https://youtube.com/playlist?list=PLEYqyyrm-hQ3wtF34smyJSAOqUJqnf1ch> (strength of material)

[https://www.youtube.com/watch?v=Hn\\_iozUo9m4](https://www.youtube.com/watch?v=Hn_iozUo9m4)

[https://youtube.com/playlist?list=PL1IHA35xY5H5sfjibqn\\_XFFxk3-pFiaX](https://youtube.com/playlist?list=PL1IHA35xY5H5sfjibqn_XFFxk3-pFiaX) (too lengthy playlist watch at least this video:

[https://www.youtube.com/watch?v=AXL4lI3aRB8&list=PL1IHA35xY5H5sfjibqn\\_XFFxk3-pFiaX&index=30](https://www.youtube.com/watch?v=AXL4lI3aRB8&list=PL1IHA35xY5H5sfjibqn_XFFxk3-pFiaX&index=30)

**book:** [https://www.academia.edu/36686758/Mechanics\\_of\\_Materials\\_7th\\_Edition\\_2015](https://www.academia.edu/36686758/Mechanics_of_Materials_7th_Edition_2015)

solution manual for chapter 2

[https://www.academia.edu/33338921/Mechanics\\_of\\_Materials\\_7th\\_Edition\\_Beer\\_Solution\\_Manual](https://www.academia.edu/33338921/Mechanics_of_Materials_7th_Edition_Beer_Solution_Manual)

### **Vibration and resonance**

<https://www.youtube.com/watch?v=vLaFAKnaRJU>

### **FUSION 360 courses**

<https://www.coursera.org/specializations/autodesk-cad-cam-cae-mechanical-engineering>

### **Solidworks(free download)**

<https://getintopc.com/software/3d-cad/solidworks-2021-free-download-2568456/>

(tutorial)

<https://beginners-tutorials.info/how-to-install-solidworks-2021-without-errors/>