

Key Teaching Resources : Standard Edition



Purpose

This Edition supports most materials-related courses, from introductory level through to advanced project work, across engineering design and science. It provides an overview of the world of materials in both data-lead and visual formats, it can also be used to teach a rational selection methodology and how to assess the environmental impact of a product.

Data

Three levels of data enable progression with the student, from an initial subset of the most common 69 materials through to a comprehensive set of mechanical, thermal, optical, electrical, magnetic and environmental properties for over 3,900 engineering materials.

Tools

- ✓ Add Record Tool
- ✓ Favorites
- ✓ Eco Audit Tool

Online Resources

White Paper »

All materials

Translate design requirements
*express as function, constraints,
objectives and free variables*

Teaching Engineering Materials

Lecture Unit »

Materials and Process Un

Technical ceramics -
Composites
Natural materials
Foams
Metals and

The Materials and Process Universe

Exercises »

Embodied energy

Modulus - Density

Exercise Unit 7:
Selecting Materials

Click here for our **Top 20** resources »

Click here for **all** resources »

Access & Inspiration

These resources are available to **Educators** using CES EduPack in their teaching. You can access them by following the links in this PDF or going to the web address below.

In order to **start using** the resources, click join at the top of the page and fill in your details. Once we have checked your credentials we will give you access.



Granta's Education Hub contains 350+ teaching and learning resources in 8 languages. Some of these resources have been contributed by educators like you. Others were created by Mike Ashby and the Teaching Resources Team at Granta Design. The Hub allows you to access Case Study Inspiration sessions, download CES EduPack and request training for your university. Your students can access interactive learning resources.