## 工程力学课程介绍

## 一、中文简介:

《工程力学》是许多工程学科的基础,具有科学严密性和应用灵活性紧密 结合的特点,能较大程度提高学生综合科研素质。它包括静力学和材料力学两部 分。静力学包括:物体的受力分析,力系的平衡及应用,物体重心的计算。材料 力学(基础部分)包括:拉伸,压缩与剪切,扭转,弯曲,应力状态分析,强度理 论,组合变形,压杆稳定,平面图形的几何性质等。

## 二、英文简介:

Engineering mechanics is a fundamental course in engineering science and possesses the features by combining the strictness in sciences and flexibility in applications. The undergraduates' synthesize ability in research can be greatly enhanced by the training in this course. This course is composed of two parts: statics and mechanics of materials. The contents of statics includes: force analysis, the equilibrium of force system and its application and computation of the centroid, etc. As for mechanics of materials part, we will talk about tension, compression, shearing, torsion, bending, the analysis of stress states, the theory of strength, combined loadings, the stability of column and geometric properties of a plane area, etc.