

Mécanique des Milieux Continus



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique

In brief

> **Ametys Code:** N5AM02A

Presentation

Objectives

This course describes the kinematics of continuous media and the principles of conservation of mass, momentum and energy. It presents the properties of the stress tensor and the associated behavior laws.

Description

Kinematics of continuous media-deformation
Conservation laws of mass, momentum and energy.
Inequality of Clausius-Duhem
Stress tensor - constitutive law
Demonstration of the Navier-Stokes equation
Equation of sound