

<<工程流体力学>>

图书基本信息

书名：<<工程流体力学>>

13位ISBN编号：9787564609054

10位ISBN编号：7564609052

出版时间：2011-9

出版时间：中国矿业大学出版社

作者：郭楚文等

页数：299

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## <<工程流体力学>>

### 内容概要

This textbook is an introduction to engineering fluid mechanics. It mainly includes fluids and their properties , fluid statics , fluid dynamics , similitude and dimensional analysis , viscous flow and hydraulic calculation , vortex flow , irrotational flow , introduction to theory of boundary layer , and introduction to aerodynamics.

## 书籍目录

1 Fluids and Their Properties1.1 Definition of Fluids1.2 Fluid as a Continuum1.3 Inertia of Fluids1.4 Compressibility and Expansibility of Fluids1.5 Viscosity of Fluids1.6 Surface TensionProblems for Chapter 12  
Fluid Statics2.1 Forces Exerted on Fluids2.2 Static Pressure of Fluids and Its Properties2.3 Basic Equation of Fluids  
Statics2.4 Measurement of Pressure2.5 Relative Equilibrium of Liquid2.6 Forces Acting on a Plane Due to  
Hydrostatic Pressure2.7 Forces Acting on a Curved Surface Due to Hydrostatic Pressure2.8 Buoyancy and Stability  
of Floating BodiesProblems for Chapter 23 Fluid Dynamics3.1 Basic Concepts of Flow3.2 Flow Descriptions3.3  
Reynolds' Transport Theorem3.4 Equation of Continuity3.5 Momentum Equation3.6 Moment-of-momentum  
Equation3.7 Energy Equation3.8 Bernoulli's Equation Along a Streamline3.9 Bernoulli's Equation for Total  
Flow3.10 Other Applications of Basic Equations of Fluid DynamicsProblems for Chapter 34 Similitude and  
Dimensional Analysis4.1 Similitude and Model Tests4.2 Dimensional Analysis and the Buckingham Problems for  
Chapter 45 Viscous Flow and Hydraulic Calculations5.1 Fundamental Flow States of Viscous Fluids5.2  
Navier-Stokes Equations of a Real Fluid5.3 Laminar Flow of Incompressible Viscous Fluid5.4 Turbulent Flow of  
Viscous Fluids5.5 Experimental Study on Head Loss.....6 Vortex Flow7 Irrotational Flow8 Introduction to  
Boundary Layer Theory9 Introduction to AerodynamicsReferencesIndex

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>