

# Concept-Development Practice Page

# 6-1

## Friction



1. A crate filled with delicious junk food rests on a horizontal floor. Only gravity and the support force of the floor act on it, as shown by the vectors for weight  $W$  and normal force  $n$ .

- The net force on the crate is (zero) (greater than zero).
- Evidence for this is no acceleration.



2. A slight pull  $P$  is exerted on the crate, not enough to move it.

- The force of friction  $f$  acting on the crate is (less than) (equal to) (greater than)  $P$ .
- The net force on the crate is (zero) (greater than zero).



3. Pull  $P$  is increased until the crate begins to move. It is pulled so that it moves with constant velocity across the floor.

- Friction  $f$  is (less than) (equal to) (greater than)  $P$ .
- Constant velocity means acceleration is (zero) (greater than zero).
- The net force on the crate is (less than) (equal to) (greater than) zero.



4. Pull  $P$  is further increased and is now greater than friction  $f$ .

- The net force on the crate is (less than) (equal to) (greater than) zero.
- The net force acts toward the right, so acceleration acts toward the (left) (right).

- If the pulling force  $P$  is 150 N and the crate doesn't move, what is the magnitude of  $f$ ? 150 N
- If the pulling force  $P$  is 200 N and the crate doesn't move, what is the magnitude of  $f$ ? 200 N
- If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? 250 N
- If the mass of the crate is 50 kg and sliding friction is 250 N, what is the acceleration of the crate when the pulling force is 250 N? 0 m/s<sup>2</sup> 300 N? 1 m/s<sup>2</sup> 500 N? 5 m/s<sup>2</sup>

## CONCEPTUAL PHYSICS

# Conceptual Physics Answers Fluid Laws

**Wilhelm Ostwald**



## **Conceptual Physics Answers Fluid Laws:**

Teaching and Learning of Fluid Mechanics Ashwin Vaidya, 2020-12-02 This book contains research on the pedagogical aspects of fluid mechanics and includes case studies lesson plans articles on historical aspects of fluid mechanics and novel and interesting experiments and theoretical calculations that convey complex ideas in creative ways The current volume showcases the teaching practices of fluid dynamicists from different disciplines ranging from mathematics physics mechanical engineering and environmental engineering to chemical engineering The suitability of these articles ranges from early undergraduate to graduate level courses and can be read by faculty and students alike We hope this collection will encourage cross disciplinary pedagogical practices and give students a glimpse of the wide range of applications of fluid dynamics

**Singular Limits in Thermodynamics of Viscous Fluids** Eduard Feireisl, Antonín Novotný, 2017-11-24 This book is about singular limits of systems of partial differential equations governing the motion of thermally conducting compressible viscous fluids The main aim is to provide mathematically rigorous arguments how to get from the compressible Navier Stokes Fourier system several less complex systems of partial differential equations used e g in meteorology or astrophysics However the book contains also a detailed introduction to the modelling in mechanics and thermodynamics of fluids from the viewpoint of continuum physics The book is very interesting and important It can be recommended not only to specialists in the field but it can also be used for doctoral students and young researches who want to start to work in the mathematical theory of compressible fluids and their asymptotic limits Milan Pokorný zbMATH This book is of the highest quality from every point of view It presents in a unified way recent research material of fundamental importance It is self contained thanks to Chapter 3 existence theory and to the appendices It is extremely well organized and very well written It is a landmark for researchers in mathematical fluid dynamics especially those interested in the physical meaning of the equations and statements Denis Serre MathSciNet

**Principles of Physics** Raymond A. Serway, 1997-08 **Examination Questions and Answers in Basic Anatomy and Physiology** Martin Caon, 2016-10-11 This book provides two thousand multiple choice questions on human anatomy and physiology separated into 40 categories The answer to each question is accompanied by an explanation Each category has an introduction to set the scene for the questions to come However not all possible information is provided within these Introductions so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers The questions have been used in examinations for undergraduate introductory courses and as such reflect the focus of these particular courses and are pitched at the level to challenge students that are beginning their training in anatomy and physiology The questions and answer combinations are to be used both by teachers to select questions for their next examinations and by students when studying for an upcoming test Students enrolled in the courses for which these questions were written include nursing midwifery paramedic physiotherapy occupational therapy nutrition dietetics health sciences and students taking an anatomy and physiology course as an elective

**The Formation of**

**Shocks in 3-dimensional Fluids** Demetrios Christodoulou, 2007 The equations describing the motion of a perfect fluid were first formulated by Euler in 1752 These equations were among the first partial differential equations to be written down but after a lapse of two and a half centuries we are still far from adequately understanding the observed phenomena which are supposed to lie within their domain of validity These phenomena include the formation and evolution of shocks in compressible fluids the subject of the present monograph The first work on shock formation was done by Riemann in 1858 However his analysis was limited to the simplified case of one space dimension Since then several deep physical insights have been attained and new methods of mathematical analysis invented Nevertheless the theory of the formation and evolution of shocks in real three dimensional fluids has remained up to this day fundamentally incomplete This monograph considers the relativistic Euler equations in three space dimensions for a perfect fluid with an arbitrary equation of state The author considers initial data for these equations which outside a sphere coincide with the data corresponding to a constant state Under suitable restriction on the size of the initial departure from the constant state he establishes theorems that give a complete description of the maximal classical development In particular it is shown that the boundary of the domain of the maximal classical development has a singular part where the inverse density of the wave fronts vanishes signalling shock formation The theorems give a detailed description of the geometry of this singular boundary and a detailed analysis of the behavior of the solution there A complete picture of shock formation in three dimensional fluids is thereby obtained The approach is geometric the central concept being that of the acoustical spacetime manifold

**Teaching Tips** Marvin Druger, Eleanor Dantzler Siebert, Linda W. Crow, 2004 Like a spirited idea exchange among experienced professors Teaching Tips Innovations in Undergraduate Science Instruction brings you the best thinking about how to engage undergraduate science students Most of the ideas in the book are applicable across the sciences

**Physics, Its Laws, Ideas, and Methods** Alexander Kolin, 1950 Munson, Young and Okiishi's Fundamentals of Fluid Mechanics Philip M. Gerhart, Andrew L. Gerhart, John I. Hochstein, 2016-01-11 Fundamentals of Fluid Mechanics offers comprehensive topical coverage with varied examples and problems application of visual component of fluid mechanics and strong focus on effective learning The text enables the gradual development of confidence in problem solving Each important concept is introduced in easy to understand terms before more complicated examples are discussed

Physics John D. Cutnell, 2004 Readings in Qualitative Reasoning About Physical Systems Daniel S. Weld, Johan De Kleer, 2013-09-17 Readings in Qualitative Reasoning about Physical Systems describes the automated reasoning about the physical world using qualitative representations This text is divided into nine chapters each focusing on some aspect of qualitative physics The first chapter deal with qualitative physics which is concerned with representing and reasoning about the physical world The goal of qualitative physics is to capture both the commonsense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and scientists The succeeding chapter discusses the qualitative calculus and its role in

constructing an envisionment that includes behavior over both mythical time and elapsed time These topics are followed by reviews of the mathematical aspects of qualitative reasoning history based simulation and temporal reasoning as well as the intelligence in scientific computing The final chapters are devoted to automated modeling for qualitative reasoning and causal explanations of behavior These chapters also examine the qualitative kinematics of reasoning about shape and space This book will prove useful to psychologists and psychiatrists *Recent Trends in Hydrogeology* Thirupudaimarudhur N.

Narasimhan,1982-01-01      **Applied Mechanics Reviews** ,1960      **Liquids and Solutions** Dale Dreisbach,1966      **The Fundamental Principles of Chemistry** Wilhelm Ostwald,1909      Film & Video Finder ,1997      **UC Santa Cruz**

University of California, Santa Cruz,1999      *The Spectator* ,1914 A weekly review of politics literature theology and art

**Catalogue** University of California, Santa Cruz,      **American Journal of Physics** ,1963 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics

**Physics for Colleges** Harold Horton Sheldon,Carleton Volney Kent,Carl Wallace Miller,Robert Frederick Paton,1926

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