

# BRAIN MAP

CLASS XI

# NEWTON'S LAWS OF MOTION

## Problem Solving Strategies

- Identify the unknown forces and accelerations.
- Draw FBD of bodies in the system.
- Resolve forces into their components.
- Apply  $\Sigma \vec{F} = M\vec{a}$  in the direction of motion.
- Apply  $\Sigma \vec{F} = 0$  in the direction of equilibrium.
- Write constraint relation if exists.
- Solve equations  $\Sigma \vec{F} = M\vec{a}$  and  $\Sigma \vec{F} = 0$ .

## Newton's 2<sup>nd</sup> Law

The rate of change of linear momentum of a body is directly proportional to the external force applied on the body in the direction of force.

$$\vec{F} = \frac{d\vec{p}}{dt} = m\vec{a}$$

## Angle of Friction ( $\theta$ ) and Angle of Repose ( $\alpha$ )

$$S = \sqrt{R^2 + f_f^2}$$

$$\tan \theta = \frac{f_f}{R} = \mu_s = \tan \alpha$$

$\therefore$  Numerically,  $mg \sin \alpha$   
 $\theta = \alpha$

- When there is no friction  
 $a_A = F/m$ ;  $a_B = 0$   
 $A$  will fall from  $B$  after time  
 $t = \sqrt{\frac{2L}{a}} = \sqrt{\frac{2mL}{F}}$

- Friction present between  $A$  and  $B$  ( $F < f_f$ )  
Combined system will move together with  $a = F/(M+m)$

- Friction present between  $A$  and  $B$  ( $F > f_f$ )  
Relative acceleration

$$a = a_A - a_B = \frac{MF - \mu_s mg(m+M)}{mM}$$

- $A$  will fall from  $B$  after time

$$t = \sqrt{\frac{2L}{a}} = \sqrt{\frac{2mML}{MF - \mu_s mg(m+M)}}$$

## Newton's 1<sup>st</sup> Law

A body continues its state of rest or motion until unless an external force is acted on it.

Inertia of rest

Inertia of motion

Inertia of direction

## Pseudo Force

$$\vec{F}_{ext} + \vec{F}_{pseudo} = M\vec{a}$$

$$\vec{F}_{pseudo} = -M\vec{a}_{frame}$$

For non-inertial frame of reference

## Newton's 3<sup>rd</sup> Law

To every action there is always an equal and opposite reaction.  
 $\vec{F}_{AB} = -\vec{F}_{BA}$

## Rocket Propulsion

Acceleration  
 $a = \frac{dv}{dt} = -g$

Instantaneous velocity  
 $v = u \log_e \left( \frac{m_0}{m_t} \right) - gt$

Burn out speed  
 $v_{max} = u \log_e \left( \frac{m_0}{m_t} \right)$

Thrust  
 $F = -u \frac{dm}{dt}$

## Walking



## Horse Cart Type System

For horse cart type system

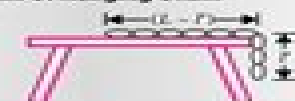
$$a = \frac{F_x - f}{M_H + M_{cart}}$$

$F_x$  = horizontal component of reaction force  
 $f$  = frictional force

## Maximum Length of Hanging Chain

Length of a chain hanging in air

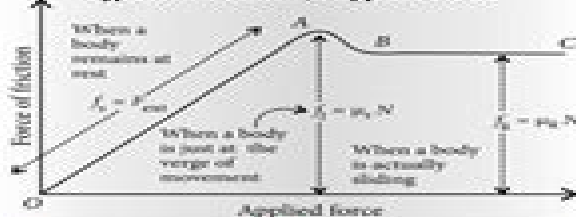
$$L = \frac{\mu L}{1 + \mu}$$



## FRICTION

The motion resisted by a bounding between the body and the surface in contact represented by single force called

## Types of Friction v/s Applied Force



## Motion of Two Bodies One Resting on the Other



- When there is no friction  
 $a_B = F/M$  and  $a_A = 0$   
 $A$  will fall from  $B$  (backward) after time  $t$   
 $\therefore t = \sqrt{\frac{2L}{a}} = \sqrt{\frac{2ML}{F}}$

- Friction present between  $A$  and  $B$  ( $F < f_f$ )  
Both the bodies will move together  
 $a = \frac{F}{M+m}$  and  $f_f = \mu_s mg$   
Pseudo force on the body  $A$ ,  
 $F' = ma = \frac{mF}{m+M}$

- Friction present between  $A$  and  $B$  ( $F > f_f$ )  
Relative acceleration  
 $a = a_A - a_B = -\left[ \frac{F - \mu_s g(m+M)}{M} \right]$   
 $A$  will fall from  $B$  (backward) after time  
 $t = \sqrt{\frac{2L}{a}} = \sqrt{\frac{2ML}{F - \mu_s g(m+M)}}$

# Conceptual Physics Concept Development Newton S Laws

**Ashwin Vaidya**



### **Conceptual Physics Concept Development Newton S Laws:**

*Concepts of Modern Engineering Physics* A S Vasudeva, 2007 Although *Concepts of Modern Physics* was the first book covering the syllabi of Punjab Technical University Jalandhar and it was accepted whole heartedly by students and teachers alike However due to the repeated changes of syllabi of P T U as it being a new university the book had to be revised and some of the chapters become redundant as these were replaced by new topics Though the book was revised with the additional chapters the discarded chapters also formed the part of the book

**Theoretical Concepts in Physics** Malcolm S. Longair, 2003-12-04 A highly original and truly novel approach to theoretical reasoning in physics This book illuminates the subject from the perspective of real physics as practised by research scientists It is intended to be a supplement to the final years of an undergraduate course in physics and assumes that the reader has some grasp of university physics By means of a series of seven case studies the author conveys the excitement of research and discovery highlighting the intellectual struggles to attain understanding of some of the most difficult concepts in physics Case studies include the origins of Newton's law of gravitation Maxwell's equations mechanics and dynamics linear and non linear thermodynamics and statistical physics the origins of the concepts of quanta special relativity general relativity and cosmology The approach is the same as that in the highly acclaimed first edition but the text has been completely revised and many new topics introduced

DEVELOPMENT OF PHYSICS -Volume I Gyo Takeda, 2009-10-17 *Development of Physics* is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Development of Physics provides an overview of the modern areas in physics most of which had been crystallized in the 20th century is given The Theme on Development of Physics deals in one volume and cover several topics with a myriad of issues of great relevance to our world such as an Overview of the Development of Physics Development of Fundamentals in Physics Physical Systems and Laws Particles and Fields Quantum Systems Order and Disorder in Nature Physics and Development which are then expanded into multiple subtopics each as a chapter This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

**Concepts Of Developmental Biology** Dr. Rajesh Verma, Mrs. Parameswari Jagari, Dr. Anant S. Deshpande, Dr. Biplab Kumar Das, 2023-01-25 The concept of Developmental Biology is the study of how animals and plants grow and develop Developmental biology also includes the study of regeneration asexual reproduction metamorphosis and the development and differentiation of stem cells in adult organisms The concept of developmental biology encompasses all facets of development including the genes and molecular processes that direct growth as well as the structural alterations that an organism experiences as it grows They investigate a wide range of developmental processes from animal and plant embryogenesis to the aggregation of slime mould amoebae blooming plants and limb regeneration in salamanders

Developmental biologists like historians construct causal relationships between events sorting out the temporal order of processes that result in morphological and functional changes throughout the span of an organism's lifetime. This book covers a wide range of topics under the umbrella concept of developmental biology from embryonic differentiation and the epigenetic landscape through blastogenesis, cleavage and gastrulation in the context of early embryonic development. In addition, this book delves into the many facets of gametogenesis and fertilisation as well as the development of plants and fungi with a focus on our evolving knowledge of angiosperms.

**Basic Concepts of Mathematics and Logic** Michael C.

Gemignani, 2004-01-01. This text emphasizes logic and the theory of sets. Students who take no further courses in the field will find it an excellent resource for developing an appreciation for the nature of mathematics. Others will discover the foundations for future studies: set theory, logic, counting, numbers, functions, and more. 1968 edition. 43 figures, 25 tables.

**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.

**Development of Concepts of Physics** Arnold B. Arons, 1965      **The Concepts of Science** Lloyd

Motz, Jefferson Hane Weaver, 2013-11-11      **The Development of Logic in Adulthood** Jan D. Sinnott, 2013-03-09. In this book, Jan D. Sinnott synthesizes her 20 years of research on lifespan cognitive development to describe the growth of complex or postformal thought in adults. She shows specifically how adults improve mentally over a lifetime and learn to think in more complex and wiser ways. Applications of postformal thought are demonstrated in such diverse areas as family relations, adult education, personal identity, and spirituality. Chapters examine relations between postformal thought and pertinent variables such as age, health, memory, and vocabulary. Other sections deal with issues in humanistic psychology such as guided imagery, mind-body medicine, and creative intentionality.

**Conceptual Development of 20th Century Field Theories** Tian Yu

Cao, 2019-10-03. An overview of the conceptual and historical foundations of fundamental field theories including their underlying issues, logic, and dynamics.      **Conceptual Evolution of Newtonian and Relativistic Mechanics** Amitabha Ghosh, 2017-10-30. This book provides an introduction to Newtonian and relativistic mechanics. Unlike other books on the topic which generally take a top-down approach, it follows a novel system to show how the concepts of the science of motion evolved through a veritable jungle of intermediate ideas and concepts. Starting with Aristotelian philosophy, the text gradually unravels how the human mind slowly progressed towards the fundamental ideas of inertia, physics. The concepts that now

appear so obvious to even a high school student took great intellectuals more than a millennium to clarify The book explores the evolution of these concepts through the history of science After a comprehensive overview of the discovery of dynamics it explores fundamental issues of the properties of space and time and their relation with the laws of motion It also explores the concepts of spatio temporal locality and fields and offers a philosophical discussion of relative motion versus absolute motion as well as the concept of an absolute space Furthermore it presents Galilean transformation and the principle of relativity inadequacy of Galilean relativity and emergence of the spatial theory of relativity with an emphasis on physical understanding as well as the debate over relative motion versus absolute motion and Mach's principle followed by the principle of equivalence The natural follow on to this section is the physical foundations of general theory of relativity Lastly the book ends with some new issues and possibilities regarding further modifications of the laws of motion leading to the solution of a number of fundamental issues closely connected with the characteristics of the cosmos It is a valuable resource for undergraduate students of physics engineering mathematics and related disciplines It is also suitable for interdisciplinary coursework and introductory reading outside the classroom

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Quigley, Amol Gulve, 2023-03-31 Product lifecycles have shortened due to competition rapidly changing markets emerging technology and regulation Modernizing Product Development Processes Guide for Engineers provides a foundation to focus on giving engineers entrepreneurs and innovators a guide to developing products with a new approach instead of a traditional product development cycle Using the fundamental pillars of this book the authors demonstrate how to bridge the gap in today's product development cycle to improve time to market needs in a fast paced environment These pillars include Learning from failures and doing Harnessing creativity out of the box thinking Front loading develop concepts early Explore multiple possible solutions Technology Manufacturing readiness level Modularity integrate common solutions In addition the authors prepare engineers to scale up production to meet customer demands in a dynamic environment by demonstrating how to establish strategies and road maps with a stage gate approach focused on harnessing creativity to build concepts technologies in early phases In today's era of innovation rapid technological growth and high consumer demand engineers must adapt and deliver products with reasonable engineered solutions and this book shows them how ISBN 9781468605419 ISBN 9781468605426 ISBN 9781468605433 DOI 10.4271.9781468605426

#### **Understanding Physics** David C.

Cassidy, Gerald Holton, F. James Rutherford, 2013-11-27 Understanding Physics provides a thorough grounding in contemporary physics while placing physics into its social and historical context Based in large part on the highly respected Project Physics Course developed by two of the authors it also integrates the results of recent pedagogical research The text thus teaches about the basic phenomena in the physical world and the concepts developed to explain them shows that science is a rational human endeavor with a long and continuing tradition involving many different cultures and people develops facility in critical thinking reasoned argumentation evaluation of evidence mathematical modeling and ethical

values The treatment emphasizes not only what we know but also how we know it why we believe it and what effects that knowledge has Why do we believe the Earth and planets revolve around the Sun Why do we believe that matter is made of atoms How do relativity theory and quantum mechanics alter our conception of Nature and in what ways do they leave the classical concepts unchanged What impact does the knowledge of finite energy resources have on our society How have applications of fundamental science such as the steam engine the laser the electric generator the transistor affected our lives How does the evidence for non scientific ideas such as UFOs ESP and the like differ from the evidence for accepted scientific results

*Core Concepts of Mechanics and Thermodynamics* Rituraj Dalal,2025-02-20 Core Concepts of Mechanics and Thermodynamics is a textbook designed for students and anyone interested in these crucial areas of physics The book begins with the basics of mechanics covering motion forces and energy and then moves on to thermodynamics discussing heat temperature and the laws of thermodynamics The book emphasizes clear explanations and real world examples to illustrate concepts and it also provides problem solving techniques to apply what you learn It covers mechanics and thermodynamics from basic principles to advanced topics explains concepts clearly with examples teaches problem solving techniques connects theory to real world applications in engineering physics and materials science and includes historical context to show the development of these ideas Core Concepts of Mechanics and Thermodynamics is a valuable resource for students teachers and self learners Whether you are beginning your journey or seeking to deepen your understanding this book provides a solid foundation in these essential subjects

**Success 24x7** Anil Bhatnagar,2015-06-22 This incredibly powerful and inspiring book shares simple and effective methods to give you true success both corporate and personal and explains how both can thrive on each other and help each other thrive Success 24 x 7 takes you on a journey of round the clock happiness and success Enjoy

**Developments in Current Game-Based Learning Design and Deployment** Felicia, Patrick,2012-07-31 Educational gaming is becoming more popular at universities in the military and in private business Multidisciplinary research which explores the cognitive and psychological aspects that underpin successful educational video games is therefore necessary to ensure proper curriculum design and positive learning outcomes Developments in Current Game Based Learning Design and Deployment highlights the latest research from professionals and researchers working in the fields of educational games development e learning multimedia educational psychology and information technology It promotes an in depth understanding of the multiple factors and challenges inherent to the design and integration of game based Learning environments

*Applied Mathematics* F. J. Murray,2013-06-29 The primary objective of the course presented here is orientation for those interested in applying mathematics but the course should also be of value or in using math to those interested in mathematical research and teaching ematics in some other professional context The course should be suitable for college seniors and graduate students as well as for college juniors who have had mathematics beyond the basic calculus sequence Maturity is more significant than any formal prerequisite The presentation involves a number of

topics that are significant for applied mathematics but that normally do not appear in the curriculum or are depicted from an entirely different point of view These topics include engineering simulations the experience patterns of the exact sciences the conceptual nature of pure mathematics and its relation to applied mathematics the historical development of mathematics the associated conceptual aspects of the exact sciences and the metaphysical implications of mathematical scientific theories We will associate topics in mathematics with areas of application This presentation corresponds to a certain logical structure But there is an enormous wealth of intellectual development available and this permits considerable flexibility for the instructor in curricula and emphasis The prime objective is to encourage the student to contact and utilize this rich heritage Thus the student's activity is critical and it is also critical that this activity be precisely formulated and communicated

**Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey** United States. Bureau of the Census, 1976      **Development of Student Understanding: Focus on Science Education** Calvin S. Kalman, Mark Lattery, 2020-01-21      **AETS Yearbook**, 1984

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