

Motion

Motion

- Change in position of an object with respect to time.
- Change in position is based on the reference point of an individual.



Scalar quantity

- Quantities having only magnitude and no direction.
- Examples: Speed, mass, distance, volume, etc.

Vector quantity

- Quantities having both magnitude and direction.
- Change in either magnitude or the direction, changes the value of the vector quantity.
- Examples: Velocity, acceleration, force, displacement, etc.

Equations of Motion

- $v = u + at$
- $v^2 = u^2 + 2as$
- $s = ut + \frac{1}{2}at^2$

Where,

s = displacement
 u = initial velocity
 v = final velocity
 a = acceleration
 t = time of motion

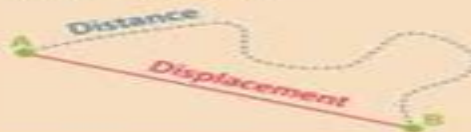
Distance

- Length of the total path travelled by a body.
- SI Unit: metre(m)



Displacement

- Length of the shortest path travelled by a body.
- SI Unit: metre(m)



Acceleration

- Rate of change of velocity with time.
- SI Unit: metre/second squared (m/s^2)

Distance -Time Graph

- Determines the change in the position of the object.
- Slope gives the speed of the object.
- Line graph of uniform motion is always a straight line.
- Time lies on the x-axis while the distance on the y-axis.

Velocity -Time Graph

- Slope gives the acceleration of the object.
- Line graph of uniform velocity is a straight line.
- Time lies on the x-axis while the velocity on the y-axis.
- Distance travelled is the area under the graph.

Speed

- Distance travelled by a body per unit time.
- SI Unit: metre/second (m/s)

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Uniform Speed

- Body travelling equal distance at equal intervals of time.
- Average speed = Speed

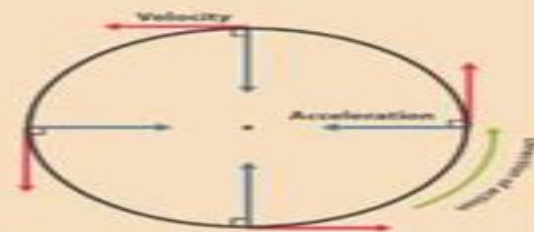
Non-uniform Speed

- Body travelling unequal distance at equal intervals of time.
- Average speed

$$= \frac{\text{Total distance travelled}}{\text{Total time taken}}$$

Uniform Circular Motion

- Body undergoing circular motion at a constant speed.



- Body traces a circle with a fixed centre.
- At every point, the body changes its direction.

Terminologies of Uniform Circular motion

Time Period (T)

Time taken by the body to complete one revolution.

Angular Speed

Speed of the object in rotational motion. It is the rate at which the angle subtended at the centre changes.

$$\text{Angular speed, } \omega = \frac{2\pi}{T}$$

Frequency (f)

The number of revolutions the body completes in one second

$$f = \frac{1}{T} \quad \text{Unit: Hertz (Hz)}$$

Centripetal Force

Centripetal force is the force acting on a body in a circular path. It points towards the centre around which the body is moving.

$$\text{Centripetal Force, } F = \frac{mv^2}{r}$$

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IT Certifications *Dynamic Analysis User's Guide* MSC Software, 2011-10-28 **Practical Guide to Digital**

Manufacturing Zhuming Bi, 2021-05-24 This book covers the subject of digital manufacturing It provides a practical guide for readers on using computer aided design CAD computer aided engineering CAE and computer aided manufacturing CAM and other computer assistive tools for the design of products machines processes and system integrations through the case studies of engineering projects The book introduces a thorough theoretical foundation and discussion of the historical

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Beginner's Guide to SOLIDWORKS 2021 - Level I Alejandro Reyes,2021-01-29 This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software s interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn Throughout this book the author introduces you to new commands that are required to pass the Certified SOLIDWORKS Associate exam as listed on the SOLIDWORKS website A dedicated chapter provides you with details about the exam as well as a practice test to help you prepare for the actual exam SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book This is meant to be a starting point to help new users to learn the basic and most frequently used commands

SOLIDWORKS 2020 Reference Guide David Planchard,2019-12 A comprehensive reference book for SOLIDWORKS 2020 Contains 260 plus standalone tutorials Starts with a basic overview of SOLIDWORKS 2020 and its new features Tutorials are written for each topic with new and intermediate users in mind Includes access to each tutorial s initial and final state Contains a chapter introducing you to 3D printing The SOLIDWORKS 2020 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2020 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2020 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SOLIDWORKS Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2020 software If you are completely new to SOLIDWORKS you

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Beginner's Guide to SOLIDWORKS 2025 - Level I Alejandro Reyes, Designed to teach new users the basic concepts of SOLIDWORKS and good solid modeling techniques Uses a task oriented approach to learning SOLIDWORKS Focuses on the processes to complete the modeling of a part instead of individual commands Includes access to extensive video instruction Covers commands found on the CSWA exam and includes a practice test This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software s interface basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task At the end of this book you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials The book focuses on the processes to complete the modeling of a part instead of focusing on individual software commands or operations which are generally simple enough to learn Throughout this book the author introduces you to new commands that are required to pass the Certified SOLIDWORKS Associate exam as listed on the SOLIDWORKS website A dedicated chapter provides you with details about the exam as well as a practice test to help you prepare for the actual exam SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before Most commands covered in this book have advanced options which may not be covered in this book This is meant to be a starting point to help new users to learn the basic and most frequently used commands Includes Video Instruction Each copy of this book includes access to video instruction In these videos the author provides a clear presentation of tutorials found in the book The videos reinforce the

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Mechanical Engineering Solutions: Design, Simulation, Testing, Manufacturing Tigran Parikyan, Yuri Sargsyan, Marco Ceccarelli, 2025-09-17 This volume contains the proceedings of the 2nd International Conference MECHANICAL ENGINEERING SOLUTIONS Design Simulation Testing Manufacturing MES 2025 held on September 17 19 2025 in Yerevan Armenia under the patronage of IFToMM The contributions highlight recent advances in key areas of mechanical engineering including linkages and mechanical controls robotics and mechatronics engines and powertrains gears and transmissions transportation systems vibrations rotordynamics and biomechanical engineering Selected papers also cover educational methods and historical developments in the field Emphasizing practical relevance this book showcases innovative engineering solutions from novel design concepts and simulation techniques to optimized control strategies and enhanced mechanical characteristics of existing machines

Computer Vision - ECCV 2024 Aleš Leonardis, Elisa Ricci, Stefan Roth, Olga Russakovsky, Torsten Sattler, Gül Varol, 2024-10-19 The multi volume set of LNCS books with volume numbers 15059 up to 15147 constitutes the refereed proceedings of the 18th European Conference on Computer Vision ECCV 2024 held in Milan Italy during September 29 October 4 2024 The 2387 papers presented in these proceedings were carefully reviewed and selected from a total of 8585 submissions They deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction motion estimation

Education Amendments of 1977 United States. Congress. Senate. Committee on Human Resources. Subcommittee on Education, Arts, and Humanities, 1978

On the Move to Meaningful Internet Systems 2005: OTM 2005 Workshops Zahir Tari, 2005-10-11 *Educating in the Spirit* Eric J. Kyle, 2019-05-16 This book is an attempt to address two struggles for theistic educators e g those who approach their educational vocation from a religious perspective whether they are working in secular or faith based institutions The first struggle is that while numerous guidelines on teaching excellence have been compiled the resulting checklists can contain more than a hundred criteria to consider This book therefore identifies the evidence based guidelines that are likely to have the highest impact on student achievement thereby empowering educators to focus their efforts in more substantial

ways The second struggle is related to the lack of resources which can help educators to view and approach their vocation from a theistic perspective While there are texts that discuss the relationship of spirituality and or theology to education few to date have sought to bring evidence based educational literature into dialogue with the western Christian tradition and thereby develop a bottom up theology of education This book addresses this historical and theological gap Overall this book is therefore intended to not only provide theistic educators with high impact guidelines that can significantly improve the quality of education in their school systems but it also strives to do so from a thoroughly theistic perspective **Districts on the Move** Jay Westover, 2019-08-16 Building off the framework Fullan and Quinn introduced in the International best seller Coherence The Right Drivers in Action for Schools Districts and Systems Westover presents a roadmap to help district and school leaders navigate the journey of creating a coherent system of continuous improvement Based on more than 15 years of successful partnerships with school districts this book includes case studies of how districts progressed over time leadership competencies shown to be critical factors for success tools and rubrics for action planning and guiding implementation and reflective questions for inquiring about the current state of district systems and practices and strategies for systemic improvements efforts Readers will discover Benchmarks of Capacity that will serve as guideposts to Create clarity of district goals and school priorities for student learning Cultivate a culture of shared leadership and systemic collaboration Develop collective expertise with a coherent instructional framework Engage in evidence based cycles of inquiry for continuous improvement Learn how to lead systemic improvement that builds capacity at the classroom school and district levels

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