

MODULE: 1

Introduction to Engineering Mechanics.

Engineering Mechanics is a subject which deals with the static and dynamic behavior of objects acted upon by forces.

Mechanics is broadly divided into two divisions.

1. Statics (Body is at rest or equilibrium)
2. Dynamics (Moving bodies with an acceleration)

Dynamics divided into two major areas.

1. Kinematics (Studying moving bodies without considering the force producing motion)

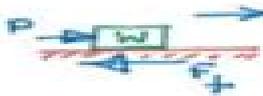
Three equations of kinematics eg. $v = u + at$. Force is not considered in all the three.

2. Kinetics (Studying moving bodies while considering the force producing motion)

Eg. equation of motion $f = ma$. Force is considered.

Statics.

Force: An action that changes or tends to change the state of rest or uniform motion of a body.



P – Pushing force / F(f) – Frictional force

Rigid body: A body which will neither deform nor **deflect** under action of a force.



Deflection delta Δ

For a rigid body, deflection will be zero.

Principles of Statics.

1. Parallelogram Law.

Force specifications:

1. Magnitude
2. Direction
3. Point of Application (starting point or end point)

Lecture Notes Engineering Mechanics Dynamics

Roman Wölfel

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Advances in Mechanical Engineering Alexander N. Evgrafov,2023-12-18 This book draws together the most interesting recent results to emerge in mechanical engineering in Russia providing a fascinating overview of the state of the art in the field in that country which will be of interest to a wide readership A broad range of topics and issues in modern engineering is discussed including dynamics of machines materials engineering structural strength and tribological behavior transport technologies machinery quality and innovations robotics and aircraft dynamics The book comprises selected papers presented at the 12th conference Modern Mechanical Engineering Science and Education held at the Saint Petersburg State Polytechnic University in June 2023 with the support of the Russian Engineering Union The authors are experts in various fields of engineering and all of the papers have been carefully reviewed The book is of interest to mechanical engineers lecturers in engineering disciplines and engineering graduates

Dynamics of the Rigid Solid with General

Constraints by a Multibody Approach Nicolae Pandrea,Nicolae-Doru Stanescu,2016-05-03 Covers both holonomic and non holonomic constraints in a study of the mechanics of the constrained rigid body Covers all types of general constraints applicable to the solid rigid Performs calculations in matrix form Provides algorithms for the numerical calculations for each type of constraint Includes solved numerical examples Accompanied by a website hosting programs

Engineering

Mechanics I Y. M. Haddad,2011

Contact Force Models for Multibody Dynamics Paulo Flores,Hamid M.

Lankarani,2016-03-15 This book analyzes several compliant contact force models within the context of multibody dynamics while also revisiting the main issues associated with fundamental contact mechanics In particular it presents various contact force models from linear to nonlinear from purely elastic to dissipative and describes their parameters Addressing the different numerical methods and algorithms for contact problems in multibody systems the book describes the gross motion of multibody systems by using a two dimensional formulation based on the absolute coordinates and employs different contact models to represent contact impact events Results for selected planar multibody mechanical systems are presented and utilized to discuss the main assumptions and procedures adopted throughout this work The material provided here indicates that the prediction of the dynamic behavior of mechanical systems involving contact impact strongly depends on the choice of contact force model In short the book provides a comprehensive resource for the multibody dynamics community and beyond on modeling contact forces and the dynamics of mechanical systems undergoing contact impact events

Computational Structural Dynamics and Earthquake Engineering Manolis Papadrakakis,Dimos C. Charmpis,Yannis Tsompanakis,Nikos D. Lagaros,2008-12-04 The increasing necessity to solve complex problems in Structural Dynamics and Earthquake Engineering requires the development of new ideas innovative methods and numerical tools for providing accurate numerical solutions in affordable computing times This book presents the latest scientific developments in Computational Dynamics Stochastic Dynam

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