

KIET GROUP OF INSTITUTIONS
DEPARTMENT OF MECHANICAL ENGINEERING



Engineering mechanics
(KME-402)

Unit I

Two-dimensional force systems: Basic concepts, Laws of motion, Principle of transmissibility of forces, transfer of a force to parallel position, resultant of a force system, simplest resultant of two dimensional concurrent and non-concurrent force systems, distribution of force systems, free body diagrams, equilibrium and equations of equilibrium.

Friction: Friction force – Laws of sliding friction – equilibrium analysis of simple systems with sliding friction – wedge friction.

Mechanical Engineering 1st Year Notes Jain University

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Recent Advances in Industrial Production Rajeev Agrawal, Jinesh Kumar Jain, Vinod Singh Yadav, Vijaya Kumar Manupati, Leonilde Varela, 2021-11-02 This book presents the select proceedings of the International Conference on Evolution in Manufacturing ICEM 2020 and examines a range of areas including evolution in manufacturing intelligent networks bio Inspired models and algorithms internet of things and cyber manufacturing This book intends to provide a contribution to the domain of collaborative and intelligent networks and systems to fill the gap in theories and practical applications through suitable methods and solutions applicable to a wide range of instances Various topics covered include broad range of research challenges in the fields of artificial intelligence and addressing current and future trends in industry 4.0 oriented scenario data analytics and big data operation and manufacturing management The book will be a valuable reference for beginners researchers and professionals interested in artificial intelligence in engineering and production management and allied fields

Mobile and Wireless Technology 2018 Kuinam J. Kim, Hyuncheol Kim, 2018-07-23 This book presents peer reviewed contributions from the 5th International Conference on Mobile and Wireless Technology ICMWT 2018 held June 25-27 2018 in Hong Kong This conference provided researchers and practitioners from both academia and industry with a platform to keep them abreast of cutting edge developments in the field The book includes papers on mobile and wireless networks and their applications the increasingly important security issues relating to mobile and wireless systems data management as well as the latest developments in mobile software development and multimedia and wireless communications

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