

Chapter - 1

Force and moment (Resultant and Equilibrium)

Engineering mechanics \Rightarrow It is the branch of physical science which deals with the state of a body under the action of external agency.

State $\begin{cases} \rightarrow \text{state of rest} \\ \rightarrow \text{state of motion} \end{cases}$

External agency $\begin{cases} \rightarrow \text{Force} \\ \rightarrow \text{moment} \end{cases}$

Force \Rightarrow Force is an action of an external agency which changes or tries to change the state of a body. (Unit = Newton; Push/Pull)

Moment \Rightarrow It is a measure of turning effect.
 Unit = Nm
 moment = Force \times distance

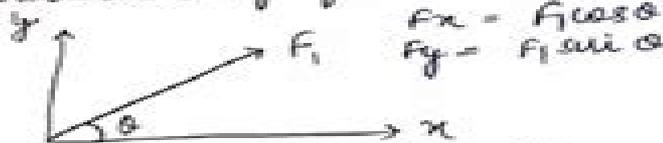
moment about O = $F \times d$

Quantity \Rightarrow Anything which can be measured directly or indirectly.

- i) Scalar (mag)
- ii) vector (mag - dir)

Rigid body \Rightarrow When there is no deformation in the body after the application of external force, the body is said to be rigid. \Rightarrow Deformation is very negligible, so neglected. \Rightarrow No body is perfectly rigid.

Resolution of force \Rightarrow



composition of forces \Rightarrow

$\Sigma F_x =$ Horizontal $= F_1 + F_2 \cos \theta_1 - F_4 \sin \theta_2 - F_5 - F_6 \sin \theta_3 + F_8 \sin \theta_4$

$\Sigma F_y =$ Vertical $= F_2 \sin \theta_1 + F_3 + F_4 \cos \theta_2 - F_6 \cos \theta_3 - F_7 - F_8 \cos \theta_4$



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14th International Conference on Theory and Application of Fuzzy Systems and Soft Computing - ICAFS-2020 Rafik A. Aliev, Janusz Kacprzyk, Witold Pedrycz, Mo Jamshidi, Mustafa Babanli, Fahreddin M. Sadikoglu, 2021-01-04 This book presents the proceedings of the 14th International Conference on Applications of Fuzzy Systems Soft Computing and Artificial Intelligence Tools ICAFS 2020 held in Budva Montenegro on August 27 28 2020 It includes contributions from diverse areas of fuzzy systems soft computing AI tools such as uncertain computation decision making under imperfect information deep learning and others The topics of the papers include theory and application of soft computing neuro fuzzy technology intelligent control deep learning machine learning fuzzy logic in data analytics evolutionary computing fuzzy logic and artificial intelligence in engineering social sciences business economics material sciences and others **Exploratory Data Analysis** Leandro Nunes de Castro, 2025-11-07 This book is a comprehensive guide to exploratory data analysis EDA providing readers with the tools techniques and knowledge needed to conduct effective and thorough data exploration Throughout the seven main chapters this book details various aspects of EDA from data description and preprocessing to visualization storytelling and dashboard design We will explore real world datasets uncovering hidden patterns and gaining insights along the way This book is filled with illustrations using practical examples Python codes and different types of exercises designed to reinforce the concepts and processes discussed Whether you are a student just starting out in the field of data science a senior professional looking to improve your skills or a curious individual interested in the power of data this book is for you **Advances in Information and Communication Networks** Kohei Arai, Supriya Kapoor, Rahul Bhatia, 2018-12-26 The book gathering the proceedings of the Future of Information and Communication Conference FICC 2018 is a remarkable collection of chapters covering a wide range of topics in areas of information and communication technologies and their applications to the real world It includes 104 papers and posters by pioneering academic researchers scientists industrial engineers and students from all around the world which contribute to our understanding of relevant trends of current research on communication data science ambient intelligence networking computing security and Internet of Things This book collects state of the art chapters on all aspects of information science and communication technologies from classical to intelligent and covers both theory and applications of the latest technologies and methodologies Presenting state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research this book is an interesting and useful resource The chapter Emergency Departments is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) **Computational Intelligent Security in Wireless Communications** Suhel Ahmed Khan, Rajeev Kumar, Omprakash Kaiwartya, Raees Ahmad Khan, Mohammad Faisal, 2023-03-21 Wireless network security research is multidisciplinary in nature including data analysis economics mathematics forensics information technology and computer science This text covers cutting edge research in computational

intelligence systems from diverse fields on the complex subject of wireless communication security It discusses important topics including computational intelligence in wireless network and communications artificial intelligence and wireless communication security security risk scenarios in communications security resilience metrics and their measurements data analytics of cyber crimes modeling of wireless communication security risks advances in cyber threats and computer crimes adaptive and learning techniques for secure estimation and control decision support systems fault tolerance and diagnosis cloud forensics and information systems and intelligent information retrieval The book Discusses computational algorithms for system modeling and optimization in security perspective Focuses on error prediction and fault diagnosis through intelligent information retrieval via wireless technologies Explores a group of practical research problems where security experts can help develop new data driven methodologies Covers application on artificial intelligence and wireless communication security risk perspective The text is primarily written for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and computer engineering The text comprehensively discusses wide range of wireless communication techniques with emerging computational intelligent trends to help readers understand the role of wireless technologies in applications touching various spheres of human life with the help of hesitant fuzzy sets based computational modeling It will be a valuable resource for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and computer engineering

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human in the loop shared or supervisory control This book will be useful to researchers students industrialist developers and practitioners alike

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