

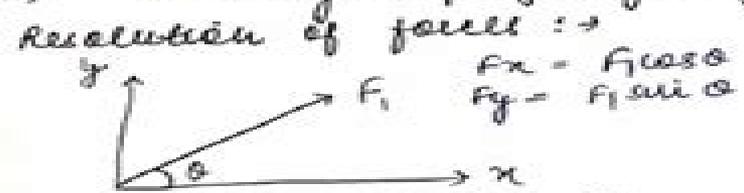
## Chapter - 1

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)
- 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.



- composition of forces  $\Rightarrow$
- $\Sigma F_x = \text{Horizontal}$   
 $F_1 + F_2 \cos \theta_1 - F_4 \sin \theta_2 - F_5 - F_6 \sin \theta_3 + F_8 \sin \theta_4$
- $\Sigma F_y = \text{Vertical}$   
 $F_2 \sin \theta_1 + F_3 + F_4 \cos \theta_2 - F_6 \cos \theta_3 - F_7 - F_8 \cos \theta_4$



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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

Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-07-26 As technology continues to become more sophisticated mimicking natural processes and phenomena also becomes more of a reality Continued research in the field of natural computing enables an understanding of the world around us in addition to opportunities for man made computing to mirror the natural processes and systems that have existed for centuries Nature Inspired Computing Concepts Methodologies Tools and Applications takes an interdisciplinary approach to the topic of natural computing including emerging technologies being developed for the purpose of simulating natural phenomena applications across industries and the future outlook of biologically and nature inspired technologies Emphasizing critical research in a comprehensive multi volume set this publication is designed for use by IT professionals researchers and graduate students studying intelligent computing

**Innovations in Cyber Physical Systems** Jawar Singh, Sudhir Kumar, Umakanta Choudhury, 2021-09-09 The book presents a collection of peer reviewed articles from the International Conference on Innovations in Cyber Physical Systems ICICPS 2020 The conference provided opportunities for the presentation of new research results and discussion about them It was also an opportunity to generation of new ideas in all CPS aspects including theory tools applications systems test beds and field deployments The range of topics explored is wide and covers security control optimization machine learning game theory mechanism design mobile and cloud computing model based design verification data mining analytics signal processing and human in the loop shared or

supervisory control This book will be useful to researchers students industrialist developers and practitioners alike **Big Data Analytics in the Insurance Market** Kiran Sood,Balamurugan Baluswamy,Simon Grima,Pierpaolo Marano,2022-07-18 Big Data Analytics in the Insurance Market is an industry specific guide to creating operational effectiveness managing risk improving financials and retaining customers A must for people seeking to broaden their knowledge of big data concepts and their real world applications particularly in the field of insurance Encyclopedia of GIS Shashi Shekhar,Hui Xiong,2007-12-12 The Encyclopedia of GIS provides a comprehensive and authoritative guide contributed by experts and peer reviewed for accuracy and alphabetically arranged for convenient access The entries explain key software and processes used by geographers and computational scientists Major overviews are provided for nearly 200 topics Geoinformatics Spatial Cognition and Location Based Services and more Shorter entries define specific terms and concepts The reference will be published as a print volume with abundant black and white art and simultaneously as an XML online reference with hyperlinked citations cross references four color art links to web based maps and other interactive features *Encyclopedia of Networked and Virtual Organizations* Putnik, Goran D.,Cruz-Cunha, Maria Manuela,2008-03-31 Administration r f rence lectronique informatique **Notes for Use in the Course R-4, Mining Engineering** Frederick William Sperr,Michigan Technological University,1920 *Prosiding Konferensi Perpustakaan Digital Indonesia 10* Titiek Kismiyati,Wiratna Tritawirasta,2017 Role of digital library and web based library in sustainable development of Indonesia proceedings of a conference **Introductory Mining Engineering** Howard L. Hartman,Jan M. Mutmansky,2002-08-09 An introductory text and reference on mining engineering highlighting the latest in mining technology Introductory Mining Engineering outlines the role of the mining engineer throughout the life of a mine including prospecting for the deposit determining the site s value developing the mine extracting the mineral values and reclaiming the land afterward This Second Edition is written with a focus on sustainability managing land to meet the economic and environmental needs of the present while enhancing its ability to also meet the needs of future generations Coverage includes aboveground and underground methods of mining for a wide range of substances including metals nonmetals and fuels Completely up to date this book presents the latest information on such technologies as remote sensing GPS geophysical surveying and mineral deposit evaluation as well as continuous integrated mining operations and autonomous trucks Also included is new information on landscape restoration regional planning wetlands protection subsidence mitigation and much more New chapters include coverage of Environmental responsibilities Regulations Health and safety issues Generously supplemented with more than 200 photographs drawings and tables Introductory Mining Engineering Second Edition is an indispensable book for mining engineering students and a comprehensive reference for professionals **On the Profession of Mining Engineering ...** William Ashburner,1874 *Mining Engineering Notes* Robert Hallowell Richards,Frederick W. Horton,Harold B. Litchman,Charles B. Hollis,Waldron Page Schumacher,1904 *Introduction to Mining Engineering -*

*Comprehensive Volume - 1* Bilal Semih Bozdemir,2024-09-24 This book explains the topics related to the introduction to Mining Engineering in detail It has been prepared especially for the benefit of students and academicians studying at the Faculty of Mining The topics have been prepared in order and by taking into consideration the important issues

**Introduction to Mining Engineering (version 1.0)** Delft University of Technology, Faculty of Civil Engineering and Geosciences,2007 **Introduction to Mining Engineering - Comprehensive Book I** Bilal Semih Bozdemir,2024-09-24 Volume 1 comprehensive This book explains the topics related to the introduction to Mining Engineering in detail It has been prepared especially for the benefit of students and academicians studying at the Faculty of Mining The topics have been prepared in order and by taking into consideration the important issues [Mining Engineering Notes](#) Robert George Kerr Morrison,1965

**Introduction to Mining Engineering - Comprehensive Volume 2** Bilal Semih Bozdemir,2024-09-24 This book explains the topics related to the introduction to Mining Engineering in detail It has been prepared especially for the benefit of students and academicians studying at the Faculty of Mining The topics have been prepared in order and by taking into consideration the important issues This book consists of two volumes and this is the second volume

**Principles and Practice in Mining Engineering** Abhay Kumar Soni,Ishwardas L. Muthreja,Rajendra R. Yerpude,2023-12-19 Principles and Practice in Mining Engineering is an up to date introduction to the scientific principles and technological practices of mining engineering This book introduces the processes involved in surface and underground mining and covers many topical issues common to mining engineering practices including mining and quarrying methods environmental protection measures finance and investment policy and mining education Recent technology and innovations technovations in the mining and mineral industry including digital mines IoT IIoT AI and machine learning are also discussed Seven case studies of mines and mining operation from different parts of the globe are included to demonstrate how various minerals including lithium potash copper gold uranium and coal are extracted These case studies are written by experienced industry professionals working for reputable companies Suggested readings references websites and conversion tables for mining engineering applications are included at the end of the book for the reader s reference Principles and Practice in Mining Engineering gives practical real world knowledge to the mining workforce engaged in the mining and minerals industry globally This book is also aimed at students scientists academics NGOs and professionals just entering the mining industry

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