

## 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  $\times$   $\perp$  distance

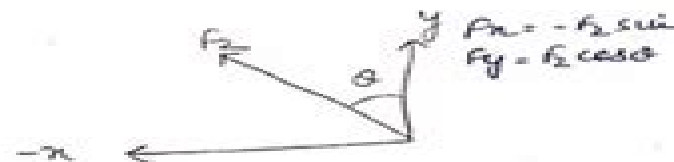
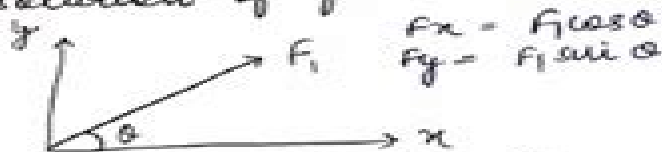
$$\text{moment about A} = F \times d$$

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

i) Scalar (mag) ii) vector (mag - dir<sup>n</sup>)

- 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.

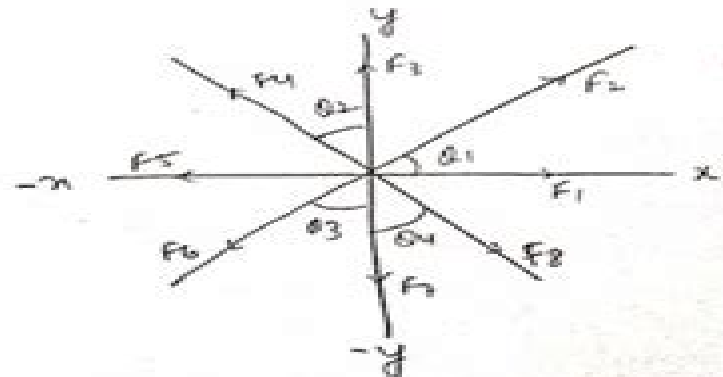
- Resolution of force  $\Rightarrow$



- Composition of forces  $\Rightarrow$

$$\sum F_x = \text{Horizontal} = F_1 + F_2 \cos \theta_1 - F_4 \sin \theta_2 - F_5 - F_6 \sin \theta_3 + F_8 \sin \theta_4$$

$$\sum F_y = \text{Vertical} = F_2 \sin \theta_1 + F_3 + F_4 \cos \theta_2 - F_6 \cos \theta_3 - F_7 - F_8 \cos \theta_4$$



# Mechanical Building Services Engineering Lecture Notes

**M Lipman**



## **Mechanical Building Services Engineering Lecture Notes:**

**Course on Engineering of Building Services Lecture Notes** University of Glasgow. Department of Mechanical Engineering. Building Services Research Unit, 1968      **IAENG Transactions on Engineering Sciences** Sio-Iong Ao, Alan Hoi-Shou Chan, Hideki Katagiri, Li Xu, 2014-04-07 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong March 13 15 2013 under the International MultiConference of Engineers and Computer Scientists IMECS 2013 and in London U K 3 5 July 2013 under the World Congress on Engineering 2013 WCE 2013 respectively IMECS 2013 and WCE 2013 were organized      **The Building Services Engineer**, 1978      British Vocational Qualifications Kogan Page, 2003 Over the last decade as the importance of vocational qualifications has been firmly established the system has become increasingly complex and hard to grasp Now in its sixth edition this popular and accessible reference book provides up to date information on over 3500 vocational qualifications in the UK Divided into five parts the first clarifies the role of the accrediting and major awarding bodies and explains the main types of vocational qualifications available A directory then lists over 3500 vocational qualifications classified by professional and career area giving details of type of qualification title level awarding body and where possible the course code and content The third section comprises a glossary of acronyms used together with a comprehensive list of awarding bodies industry lead bodies professional institutes and associations with their contact details Section four is a directory of colleges offering vocational qualifications in the UK arranged alphabetically by area Finally section five is an index of all qualifications listed alphabetically by title      **Fluid-Structure-Sound Interactions and Control** Yu Zhou, Yang Liu, Lixi Huang, Dewey H. Hodges, 2013-11-12 With rapid economic and industrial development in China India and elsewhere fluid related structural vibration and noise problems are widely encountered in many fields just as they are in the more developed parts of the world causing increasingly grievous concerns Turbulence clearly has a significant impact on many such problems On the other hand new opportunities are emerging with the advent of various new technologies such as signal processing flow visualization and diagnostics new functional materials sensors and actuators etc These have revitalized interdisciplinary research activities and it is in this context that the 2nd symposium on fluid structure sound interactions and control FSSIC was organized Held in Hong Kong May 20 21 2013 and Macau May 22 23 2013 the meeting brought together scientists and engineers working in all related branches from both East and West and provided them with a forum to exchange and share the latest progress ideas and advances and to chart the frontiers of FSSIC The Proceedings of the 2nd Symposium on Fluid Structure Sound Interactions and Control largely focuses on advances in the theory experimental research and numerical simulations of turbulence in the contexts of flow induced vibration noise and their control This includes several practical areas for interaction such as the aerodynamics of road and space vehicles marine and civil engineering nuclear reactors and biomedical science etc One of the particular features of these proceedings is that it integrates acoustics with the study of flow induced vibration which is not a common practice but is scientifically very

helpful in understanding simulating and controlling vibration This offers a broader view of the discipline from which readers will benefit greatly These proceedings are intended for academics research scientists design engineers and graduate students in engineering fluid dynamics acoustics fluid and aerodynamics vibration dynamical systems and control etc Yu Zhou is a professor in Institute for Turbulence Noise Vibration Interaction and Control at Harbin Institute of Technology Yang Liu is an associate professor at The Hong Kong Polytechnic University Lixi Huang associate professor works at the University of Hong Kong Professor Dewey H Hodges works at the School of Aerospace Engineering Georgia Institute of Technology

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