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component notation  $2m \ 2m \ 4m \ x$   
First: we need to define a coordinate system. Let the upward pointing axis be  $z$ . MAE2103 - Engineering Mechanics I Course Notes Here you can download the free Engineering Mechanics Pdf Notes - EM Pdf Notes of Latest materials with multiple file links to download. Engineering Mechanics Notes Pdf - EM Notes Pdf starts with topics covering Introduction to Engineering. Mechanics, Basic Concepts. Systems of Forces: Coplanar Concurrent Forces, Components in Space, Resultant, Moment of Force and its Application, Couples and Resultant of Force Systems, etc. Engineering Mechanics Pdf Notes - EM Pdf Notes | Smartzworld Lecture 3 - 2D Force and Moment Systems (continued)

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Page 2 of 4. normally in engineering we use cartesian coordinates.

Moment about the axis O CW +ve.

$M_o = Fd$  using definition.  $M_o = F a = F b \times y$  using Varignon's theorem. Often this is much easier than using trigonometry to find the shortest perpendicular distance " d ".

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