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Chapter Vector Mechanics For Engineers

Vector Mechanics for Engineers: Statics Equilibrium of a Rigid Body in Two Dimensions 4 - 10 • For known forces and moments that act on a two-dimensional structure, the following are true: F z = 0 M x = M y = 0 M z = M O • Equations of equilibrium become ∑F x = 0 ∑F y = 0 ∑M A = 0 where A can be any point in the plane of the body.

CHAPTER VECTOR MECHANICS FOR ENGINEERS: STATICS

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Edition. 4 - 15. Equilibrium of a Two-Force Body • Consider a plate subjected to two forces . F. 1 . and . F. 2 • For static equilibrium, the sum of moments about . A . must be zero. The moment of . F. 2 . must be zero. It follows that the line of action of . F. 2 . must pass through . A. • Similarly, the line of action of . F. 1 . must pass

CHAPTER VECTOR MECHANICS FOR ENGINEERS: STATICS

• Differential vector is the dr particle displacement. r •Work of the forceis F dx F dyF dz Fds dU F dr = x + y+z = = • cosα r r •Work is a scalar quantity, i.e., it has magnitude and sign but not direction. • Dimensions of work are Units arelength ×force. 1 J (joule)=(1 N)(1 m) 1ft·lb =1.356 J

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