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Engineering Mechanics Statics Dynamics Plus

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For analysis purposes in statics and dynamics, we will usually substitute in a single point force that is statically equivalent to the distributed load in the problem. This single point force is called the equivalent point load and it will cause the same accelerations or reaction forces as the distributed load while simplifying the math.

3.3 Distributed Loads - Engineering Mechanics: Statics

Transcript ENGINEERING MECHANICS STATICS THIRTEENTH EDITION This page intentionally left blank ENGINEERING MECHANICS STATICS THIRTEENTH EDITION R. C. HIBBELER Upper Saddle River Boston Columbus San Francisco New York Indianapolis London Toronto Sydney Singapore Tokyo Montreal Dubai Madrid Hong Kong Mexico City Munich Paris Amsterdam Cape Town Library of Congress Cataloging-in-Publication Data ...

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$C \times x + d \int_0^x y^2 dy = 12y + d \int_0^x y^3 dy = 6y^2 + \frac{d}{4}y^4$ -- Basic Chapter --d 2 2 12 mechanics 111 For a circular cross-section: and from the principle of parallel axes, the I_{xx} of one flange equals: $\pi D^4 I_{xx} = (7.2 \times 106) + (86 \times 100 \times 2002) = 351.2 \times 106 \text{ mm}^4$ 64 Thus the total I_{xx} of the web plus two flanges equals ...

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