

# Engineering Mechanics Centroid Formulas

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As both x and y axes pass through the centroid of the circular area, Equations (8.8a) and (8.8b) give the moment of inertia of circle about its centroidal axes.. The above concept can be extended to obtain the moment of inertia of semicircular and quarter circular area as given below. Fig.8.5 Moment of inertia of : (a) semicircle, and (b) quarter circle

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The same formula, with  $y$  substituting for  $x$ , gives us the  $y$  coordinate of the centroid. Finding the Centroid of Two Dimensional Shapes Using Calculus An integral can be used to find the centroid of shape too complicated to be broken down into its primary parts.

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Area Moments of Inertia Products of Inertia: for problems involving unsymmetrical cross-sections and in calculation of MI about rotated axes. It may be +ve, -ve, or zero • Product of Inertia of area A w.r.t. x-y axes: x and y are the coordinates of the element of area  $dA=xy$   $I_{xy} = \int xy \, dA$  • When the x

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axis, the y axis, or both are an axis of symmetry, the product of inertia is

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ME 101: Engineering Mechanics Rajib Kumar Bhattacharjya Department of Civil Engineering Indian Institute of Technology Guwahati M Block : Room No 005 : Tel: 2428 ... Centroid is a geometrical property of a body When density of a body is uniform throughout, centroid and CM coincide

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The following is a list of centroids of various two-dimensional and three-dimensional objects. The centroid of an object in  $n$ -dimensional space is the intersection of all hyperplanes that divide into two parts of equal moment about the hyperplane. Informally, it is the "average" of all points of .For an

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object of uniform composition, the centroid of a body is also its center of mass.