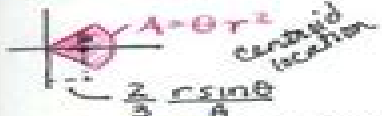


Circular Arc Segment



Centroid location

Circular Arc Area



Area Mon. Iner.
 $I_x = \frac{1}{4} r^4 (\theta - \frac{1}{2} \sin 2\theta)$
 $I_y = \frac{1}{4} r^4 (\theta + \frac{1}{2} \sin 2\theta)$

Quarter & semicircular arcs



Quarter circular area



Area Mon. Iner.
 $I_x = \frac{1}{16} \pi r^4$
 $I_y = \frac{1}{16} \pi r^4$

Trapezoidal Area



Semicircular Area



Area Mon. Iner.
 $I_x = I_y = \frac{1}{8} \pi r^4$

Parabolic Area



Circular Area



Area Mon. In
 $I_x = I_y = \frac{1}{4} \pi r^4$

$\bar{x} = \frac{\int \bar{x} dL}{\int dL}$

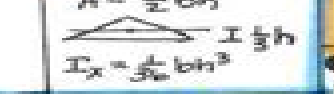
Explanatory Area



Rectangular Area



Triangle



Quarter circular area

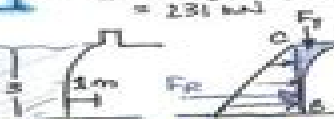


Seg	A (ft²)	\bar{x}	\bar{y}	$\bar{x}A$ (ft³)	$\bar{y}A$ (ft³)
1	4.5	1	1	4.5	4.5
2	9	-1.5	1.5	-13.5	13.5
3	-2	-2.5	2	-5	-4
	ΣA = 11.5			ΣxA = -4	ΣyA = 14

Thus $\bar{x} = \frac{\Sigma \bar{x}A}{\Sigma A} = -0.348$ $\bar{y} = \frac{\Sigma \bar{y}A}{\Sigma A} = 1.217$

Determine the mag of the resultant hydrostatic force acting on the surface of a seawall shaped in the form of a parabola. The wall is 5m long; $p_w = 1020 \text{ kg/m}^3$

$P_0 = p_w g z_0 = (1020)(9.81)(3) = 30 \text{ kPa}$
 then $w_0 = bp_0 = 5(30) = 150 \text{ kN/m}$
 $\therefore F_x = \frac{1}{2} (3)(150) = 225 \text{ kN}$
 weight of water?
 $F_y = (p_w g)(\text{arc area}) = (1020)(9.81)(5) [\frac{1}{2} (1)(3)] = 50 \text{ kN}$
 $\therefore F_R = \sqrt{F_x^2 + F_y^2} = \sqrt{225^2 + 50^2} = 231 \text{ kN}$



Moments of Inertia

$I_x = \int y^2 dA$ $I_y = \int x^2 dA$
Polar moment of Inertia
 $J_0 = \int r^2 dA = I_x + I_y$

Radius of Gyration of an Area

$k_x = \sqrt{\frac{I_x}{A}}$ $k_y = \sqrt{\frac{I_y}{A}}$ $k_0 = \sqrt{\frac{J_0}{A}}$

Center of Gravity & Mass Moment of Inertia



Hemisphere

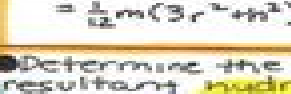


Cylinder



$V = \pi r^2 h$
 $I_{xx} = I_{yy} = \frac{1}{2} \pi r^2 h^3$
 $I_{zz} = \frac{1}{2} \pi r^2 h^3$

Thin Plate



$I_{xx} = \frac{1}{12} mb^3$
 $I_{yy} = \frac{1}{12} ma^3$
 $I_{zz} = \frac{1}{12} m(a^2 + b^2)$

Thin Plate

$I_{xx} = \frac{1}{12} mb^3$
 $I_{yy} = \frac{1}{12} ma^3$
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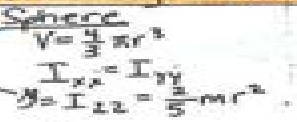
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Center of Gravity & Mass Moment of Inertia



Hemisphere

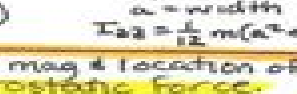


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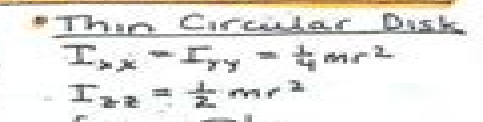
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Engineering Mechanics Statics Cheat Sheet

David J. McGill, Wilton W. King



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Dynamics for Engineers Bichara B. Muvdi, Amir W. Al-Khafaji, John W. McNabb, 1997-06-26 Mechanics is one of the branches of physics in which the number of principles is at once very few and very rich in useful consequences On the other hand there are few sciences which have required so much thought the conquest of a few axioms has taken more than 2000 years Rene Dugas A History of Mechanics Introductory courses in engineering mechanics statics and dynamics are generally found very early in engineering curricula As such they should provide the student with a thorough background in the basic fundamentals that form the foundation for subsequent work in engineering analysis and design Consequently our primary goal in writing Statics for Engineers and Dynamics for Engineers has been to develop the fundamental principles of engineering mechanics in a manner that the student can readily comprehend With this comprehension the student thus acquires the tools that would enable him or her to think through the solution of many types of engineering problems using logic and sound judgment based upon fundamental principles Approach We have made every effort to present the material in a concise but clear manner Each subject is presented in one or more sections followed by one or more examples the solutions for which are presented in a detailed fashion with frequent reference to the basic underlying principles A set of problems is provided for use in homework assignments

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may have the corners slightly dented may have slight color changes slightly damaged spine *Engineering Mechanics Statics And Dynam* S Rajasekaran,2009-11-01 Explains the fundamental concepts and principles underlying the subject illustrates the application of numerical methods to solve engineering problems with mathematical models and introduces students to the use of computer applications to solve problems A continuous step by step build up of the subject makes the book very student friendly All topics and sequentially coherent subtopics are carefully organized and explained distinctly within each chapter An abundance of solved examples is provided to illustrate all phases of the topic under consideration All chapters include several spreadsheet problems for modeling of physical phenomena which enable the student to obtain graphical representations of physical quantities and perform numerical analysis of problems without recourse to a high level computer language Adequately equipped with numerous solved problems and exercises this book provides sufficient material for a two semester course The book is essentially designed for all engineering students It would also serve as a ready reference for practicing engineers and for those preparing for competitive examinations It includes previous years question papers and their solutions *Forthcoming Books* Rose Arny,1995-02 Engineering Mechanics, Statics David J. McGill,Wilton W. King,1995 The principles of statics and dynamics are applied in order to understand and describe the behaviour of bodies in motion displaying engineering mechanics principles and supported with worked examples

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Engineering Mechanics Andrew Pytel,Jaan Kiusalaas,1994 *Engineering Mechanics* R. C. Hibbeler,2004 *Solving Statics Problems in Maple* J. L. Meriam,Brian D. Harper,L. G. Kraige,2001-09-11 If Maple is the computer algebra system you need to use for your engineering calculations and graphical output this reference will be a valuable tutorial for your studies Written as a guidebook for students taking the Engineering Statics course Solving Statics Problems in Maple will help you with your engineering assignments throughout the course Over the past 50 years Meriam Kraige s Engineering Mechanics Statics has established a highly respected tradition of Excellence A Tradition that emphasizes accuracy rigor clarity and applications Now completely revised redesigned and modernized the Fifth Edition of this classic text builds on these strengths adding new problems and a more accessible student friendly presentation **For Engineering Mechanics Statics** J. L. Meriam,1981-09-15

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






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