



basic education

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Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

LIFE SCIENCES P1

EXEMPLAR 2013

MEMORANDUM

MARKS: 150

This memorandum consists of 10 pages.

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Disha Experts



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web me 423 machine design instructor rameshsingh thread nomenclature 12 bolt specification shigley s mechanical engineering design nominal diameter $\frac{1}{4}$ 20 x $\frac{3}{4}$ in unc 2 grade 5 hex head bolt threads per inch length thread series class fit material grade head type m12 x 1 75 iso 4 8 hex head bolt metric nominal diameter pitch

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web jan 1 1993 design aid table of design properties for square hollow steel sections shs including section dimensions cross section properties area a second moment of area i elastic modulus wel plastic modulus wpl strength properties elastic moment mel plastic moment mpl plastic shear vpl and buckling properties section class buckling curves

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