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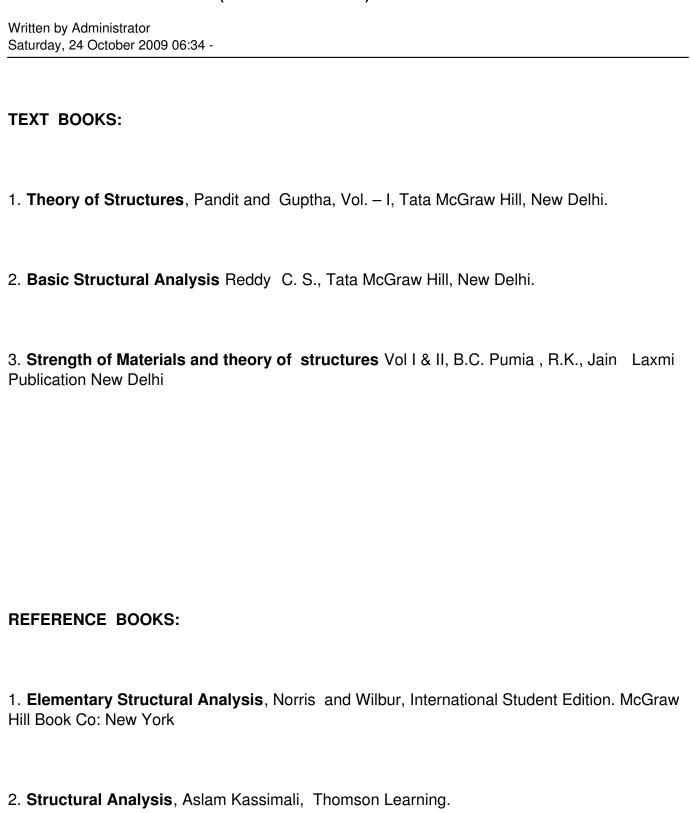
Written by Administrator Saturday, 24 October 2009 06:34 -
Exam Hours
:
03
Total Hrs.
:
52
Exam Marks
:

Written by Administrator

Saturday, 24 October 2009 06:34 -2.1 Moment area method, 2.2 Conjugate beam method 6 Hours **UNIT 3:** STRAIN ENERGY 3.1 Strain energy and complimentary strain energy, 3.2 Strain energy due to axial load, bending and shear, 3.3 Theorem of minimum potential energy, 3.4 Law of conservation of energy, 3.5 Principle of virtual work, 3.6 The first and second theorem of Castigliano, problems on beams, frames and trusses, 3.7 Betti's law, 3.8 Clarke - Maxwell's theorem of reciprocal deflection. 5 Hours **UNIT 4:** STRAIN ENERGY Continued.... 4.1 Deflection of beams and trusses using strain energy and unit load methods [] [] [] [] [] [] [] [] 000000000000000 7 Hours

Saturday, 24 October 2009 06:34 -
PART - B
UNIT 5:
ARCHES AND CABLES
5.1 Three hinged circular and parabolic arches with supports at same levels and different levels, 5.2 Determination of thrust, shear and bending moment, 5.3 Analysis of cables under
point loads and UDL, length of cables (Supports at same levels and at different levels).
6 Hours
UNIT 6:
ANALYSIS OF BEAMS
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6.1 Consistent deformation method – Propped cantilever and fixed beams 6.2 Strain Energy
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method – Propped cantilever and fixed beams.
6 Hours
UNIT 7:
7.1 Clapeyron's theorem of three moments – continuous beams and fixed beams
5 Hours
UNIT 8:
ANALYSIS OF ARCHES
8.1 Two hinged parabolic arch, 8.2 Two hinged Circular Arch
7 Hours



3. **Analysis of Structures**, Thandava Murthy, Oxford University Press, Edition 2005.