

STRENGTH OF MATERIALS SYLLABUS

CE3402- Regulation 2021

1

SIMPLE AND COMPOUND STRESSES

Stresses in simple and compound bars – Thermal stresses – Elastic constants – Thin cylindrical and spherical shells – Biaxial state of stress – Principal stresses and principal planes – Mohr's circle of stresses – Torsion on circular shafts.

BENDING OF BEAMS

2

Types of beams and transverse loadings– Shear force and bending moment for simply supported, cantilever and over-hanging beams – Theory of simple bending – Bending stress distribution – Shear stress distribution.

3

DEFLECTION OF BEAMS

Double Integration method – Macaulay's method – Area moment method – Conjugate beam method – Strain energy method for determinate beams.

INDETERMINATE BEAMS

4

Propped Cantilever and Fixed Beams – Fixed end moments reactions, slope and deflection for standard cases of loading — Continuous beams – support reactions and moments – Theorem of three moments – Shear Force and Bending Moment Diagrams.

5

ADVANCED TOPICS

Unsymmetrical bending of beams – shear center applied – Thick cylinders – Theories of failure – Principal stress, principal strain, shear stress, strain energy and distortion energy theories – application problems.

Strength Of R M E Syllabus

Thomas Griffiths



Strength Of R M E Syllabus:

Global Perspectives on Catholic Religious Education in Schools Michael T. Buchanan, Adrian-Mario Gellel, 2015-10-05 This book covers theoretical aspects of Catholic Religious Education in schools and examines them from multiple theoretical and contextual perspectives It captures the contemporary academic and educational developments in the field of Religious Education while discussing in detail the challenges that Religious Educators face in different European Asian African Australian American and Latin American countries The edited collection investigates how to pass on a Catholic heritage as a living tradition in diversely populated schools and communities In this way it explores and asserts the proper identity of Catholic Religious Education in dialogue with Catechetics and with the wider discipline of Religious Education As the different articles of this publication demonstrate through a series of interesting and critical points of view Catholic Religious Education is confronted with many challenges from the risk of marginalization to the confusion produced by a religious indifferentism leading to a strictly comparative or neutral method in the study of religions It is essential to take into account in our research perspectives that Catholic Religious Education is not only a subject but also a mission in the light of the diakonia of truth in the midst of humanity H E Cardinal Zenon Grocholewski Prefect Congregation for Catholic Education Holy See Vatican City Religious education teachers cannot by themselves overcome the ills of society but religious education can help to create better citizens of the world as some authors argue throughout this collection could not ask more from such timely and provocative collection It is a gift to the profession and to Catholic Religious Education Prof Gloria Durka Fordham University New York NY USA *Parliamentary Papers* Great Britain. Parliament. House of Commons, 1917 *Technical Book Review* ,1958 **The Economist** ,1859 *International bibliography of research in marriage and the family* Joan Aldous,1967 **Wireless World and Radio Review** ,1955 *Wireless World* ,1955 **The Engineer** ,1958 The British National Bibliography Arthur James Wells,1969 **Pharmaceutical Journal** ,1977 *Structuring the R.E. Syllabus* Allan Wainwright,1971

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