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NPTEL Syllabus - Random Vibrations & Failure Analysis

Lecture No. Topic MODULE 1: Introduction, Probability Theory, Random Variables L1. Introduction ... Crossings Of Stochastic Process L21. Crossings Of Non-Gaussian Random Processes L22. Peak Distributions Of Stochastic Processes L23. Random Fatigue ... Papoulis (1997). Probability, Random Variables And Stochastic Processes, McGraw-Hill, NY. 2. Y ... Mar 24th, 2024

NPTEL Syllabus - Computer Aided Power System Analysis

Computer Aided Power System Analysis - Web Course COURSE OUTLINE The Present Day Power Systems Are Characterized By Large Highly Interconnected Network. Extensive System Studies Are ... A.R. Bergen And Vijay Vittal, Power Systems Analysis, Pearson Education Asia, 2001. 3. J.J. Grainger And W.D. Stevenson, Jan 18th, 2024

Applied Multivariate Analysis - NPTEL

Applied Multivariate Analysis - Web Course COURSE OUTLINE Multivariate Analysis Is A Fundamental Concept In Applied Statistics. In This Course, We Shall First Look At Basic Concepts Of Multivariate Distributions And Study Standard Multivariate Distributions Which Provide Multivariate Counterparts Of The Univariate Distributions. Apr 4th, 2024

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ADVANCED ENGINEERING MATHEMATICS MATHEMATICS COURSE OUTLINE : ABOUT INSTRUCTOR : COURSE PLAN : This Course Is A Basic Course Offered To UG/PG Students Of Engineering/Science Background. It Contains Analytic Functions, Applications To The Problems Of Potential Flow, Harmonic Functions, Harmonic Conjugates, Milne's Method, Complex Integration, Sequences And Series, Uniform Convergence, Power ... Jan 9th, 2024

Digital Signal Processors-I - NPTEL

Digital Signal Processing Deals With Algorithms For Handling Large Chunk Of Data. This Branch Identified Itself As A Separate Subject In 70s When Engineers Thought About Processing The Signals Arising From Nature In The Discrete Form. Development Of Sampling Theory Followed And The Apr 24th, 2024

Textile Processing Chemistry - NPTEL

Types Of Textile Chemical Processing. Preparation -It Is A Group Of Wet Chemical Processes For The Removal Of All Foreign Matter From The Fabric-this Rendering Which Is Usually Accomplished By Washing With Water And Mild Detergent Which is capable of Emulsifying the Oils And Waxes. Mar 20th, 2024

References - NPTEL

References 1. Aland Wild., Soils And The Environment, Cambridge University Press, New York, 1993. 2. De., A.K., Environmental Chemistry, 4th Ed., New Age ... Mar 19th, 2024

Module # 6 - NPTEL

Design Of Tall Vessels: Introduction, Axial Stress Due To Dead Loads, Axial Stresses Due To Pressures, Longitudinal Bending Stresses Due To Dynamic Loads, Design Considerations Of Distillation (tall) And Absorption Column (tower) 1. Introduction 2. Stresses In The Shell (tall Vertical Vessel) 3. Axial And Circumferential Pressure Stresses Feb 23th, 2024

L-21 TB ET EE NPTEL

These Two Vectors Are Connected By A Rather Simple Relation: $B = \mu_0 \mu_r H$; Where $\mu_0 = 4 \times 10^{-7} \text{ H/m}$ Is Called The Absolute Permeability Of Free Space And μ_r , A Dimensionless Quantity Called The Relative Permeability Of A Medium (or A Material). For Example The Value Of μ_r Is 1 For Free Space Or Could Be Several Thousands In Case Of Ferromagnetic Materials. Mar 14th, 2024

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L-43 GDR ET EE NPTEL

• To Investigate The Errors Involve In Wattmeter Readings And Its Compensation. • Understanding The Effect Of Inductance Of Voltage Coil (moving Coil) On The Wattmeter Readings. L.43.1 Introduction Electrodynamical Type Instruments Are Similar To The PMMC-type Elements Except That The Magnet Is Replaced By Two Serially Connected Fixed Coils ... Feb 2th, 2024

Module 7 - NPTEL

7.17.5 Calculation Of Short-Term Deflection Clause C-2 Of Annex C Of IS 456 Prescribes The Steps Of Calculating The Short-term Deflection. The Code Recommends The Usual Methods For Elastic Deflections Using The Short-term Modulus Of Elasticity Of Concrete E_c And Effective Moment Of Inertia I_{eff} Given By The Following Equation: ; But Feb 13th, 2024

CMOS DIGITAL VLSI DESIGN - NPTEL

The Course Follows A Design Perspective, Starts From Basic Specifications And Ends ... Prof. S. Dasgupta, is Presently Working As An Associate Professor, In Microelectronics And VLSI Group Of The Department Of Electronics And Communication Engineering At Indian Institute Of Technology, Apr 18th, 2024

Electro Ceramics Web Course (NPTEL)

Basic Courses On Structure Of Materials, Thermodynamics, And Solid State Physics Suited For Final Year Undergraduate Students Of Most Disciplines And Fresh Graduate Students. List Of Topics Module Topics Equivalent Lectures (50-60 M Each)
1: Structure Of Ceramic Materials 5 2: Defect Chemistry And Equilibria 7 3: Diffusion And Conduction In ... Apr 2th, 2024

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GROUND IMPROVEMENT - NPTEL

Limitations Of Aggregate Piers Disadvantages Associated With Aggregate Piers Can Be Categorized Into Two Consisting Of Economic Limitations And Performance Limitations. The Requirement Of A Drilled Cavity, And The Fact That Almost All The Soils Requiring Improvement With Aggregate Piers, Being Very Soft And Compressible, Cavity Collapse Apr 16th, 2024

Earlier Topics - NPTEL

Basics Of Refrigeration • The Technique Of Preserving Food And Perishable Goods Is An Idea Of Prehistoric Times. • A System Which Produces Cold Or Maintains Such Low Temperatures Is Called As A Refrigerating System. • This Process Is Called As Refrigeration. • A Refrigerating System Normally Operates In A Closed Cycle System. Mar 5th, 2024

Introduction And Basic Concepts - NPTEL

3 D Nagesh Kumar, IISc Optimization Methods: M1L4 Classical Optimization Techniques (contd.) Z These Methods Assume That The Function Is Differentiable Twice With Respect To The Design Variables And The Derivatives Are Continuous. Z Three Main Types Of Problems Can Be Handled By The Classical Optimization Techniques: - Single Variable Functions - Multivariable Functions With No Constraints, Apr 23th, 2024

TECHNOLOGY ENHANCED LEARNING: A CASE STUDY OF NPTEL

Sanjay, B P. "Distance Education And Technology Based Education: An ICT Framework." Varghese, N. V. And Garima Malik. Indian Higher Education Report 2015 . New York: Routledge, 2016. 226-41. Print. Sherly, Elizabeth And Meraj. "A Techno Jan 26th, 2024

Lecture 5 Solid Catalysts - NPTEL

N Entities Or Be Initiated With Seed Materials Such As Dust , Particle Fragments, Roughness Of Vessels Surface. Addition Of Seed Material Enhances Rate Of Nucleation. The Nucleus Is Defined As The Smallest Solid Phase Aggregate Of Atoms, Molecule Or Ions Which Is Formed During Precipit Apr 25th, 2024

NPTEL - Mechanical Engineering - Forming

P, Where U Plastic Is Plastic Work Done Per Unit Volume Of Work Piece. $C_p \Delta T = \lambda u$. Is Specific Heat And ρ Is Density. With Friction, Total / ρC_p , Where λ Is Fraction Of Deformation Work Converted To Heat. Normally, $\lambda = 0.95$ To 0.98 . % Height Mar 4th, 2024

NPTEL : Biomathematics (Biotechnology)

Lecture 32 - Test Of Hypothesis - 2 (1 Tailed And 2 Tailed Test Of Hypothesis, P-value) Lecture 33 - Test Of Hypothesis - 3 (1 Tailed And 2 Tailed Test Of Hypothesis, P-value) Lecture 34 - Test Of Hypothesis - 4 (Type -1 And Type -2 Error) Lecture 35 - T-test Lecture 36 - 1 Tailed And 2 Tailed T-dis Apr 16th, 2024

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