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Module 3 First Law Of Thermodynamics - NPTEL
First Law Of Thermodynamics Statement: ¾When A Closed System Executes A Complete Cycle The Sum Of Heat Interactions Is Equal To The Sum Of Work Interactions. Mathematically ¾ΣQ=Σ 4th, 2024

Module 1 Module 2 Module 3 Module 4 Module 5
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Link To NPTEL Online Courses Https://vtu.ac.in/en/nptel- 14th, 2024

Module # 6 - NPTEL
Design Of Tall Vessels: Introduction, Axial Stress Due To Dead Loads, Axial Stresses Due To Pressurs, 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 9th, 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 8th, 2024

Module - NPTEL
On The Other Hand, An Analog Transmission Requires Lower Bandwidth Having Band Pass Characteristics. The Process Involved In Analog Transmission Is Known As Modulation, Which Requires Manipulation Of One Or More Of The Parameters Of The Carrier That Characterizes The Analog Signal. Figure 2.5.1 Depicts The Modulation 14th, 2024

Module 5 - NPTEL
302 10 3 2 = − Y X X (4) 300 300 5 5 0 450 5 30 10 3 2 300 2 2 2 2 2 = − + − = | − ⌡ ⟩ | ⌊ ⌠ = − − X X X X X M X X X X In Other Words A Three Hinged Parabolic Arch Subjected To Uniformly Distributed Load Is Not Subjected To Bending Moment At Any 15th, 2024

KV NPTEL Digital Design Module 2
Kuruvilla Varghese Cpu Level 2: Registers 3030 Kuruvilla Varghese Data Bus D7:0 Clk Inst Reg Inst Dec Contr-oller Tr1 Tr2 Alu Reg A Reg B Reg C Reg D Ra_l Ra_e Rb_l Rb_e Rc_l Rc_e Rd_l Rd_e Tr1_l Tr2_l Al_s Al_e Ir_l Clk Rst Int 7th, 2024

Module - 12 - NPTEL
Selling Rate. Hence At A Given Point Of Time, There Are Two Rates Available.These Two Rates Are Known As "bid" And "ask" Rates. As Discussed In Session 4 (market Participants In Foreign Exchange Market), Forex Dealers Give Both Bid Rates And Ask Rates. Bid-ask Rates Are Given By F 14th, 2024

Module 2: Sensors And Signal Processing Lecture 1 ... - NPTEL
Before Using A Thermocouple For Reading The Temperature Of A Furnace. 2. Differentiate Between Span And Range Of A Transducer System. 3. What Do You Mean Nonlinearity Error? How It Is Different Than By Hysteresis Error? 4. Explain The Significance Of The Following Information Given In The Specification O 18th, 2024

Module 10 - NPTEL
The Complete Design Of Slender Columns As Recommended By IS 456. 11.27.1 Introduction Slender And Short Are The Two Types Of Columns Classified On The Basis Of Slenderness Ratios As Mentioned In Sec.10.21.5 Of Lesson 21. Columns Having Both L Ex/D And L Ey/b Less Than Twelve Are Designated As Short And Otherwise, They Are Slender, Where Ex And L L 3th, 2024

Module 1 HYDROLOGIC CYCLE - NPTEL
To The Atmosphere". This Cycle Has No Beginning Or End And Water Is Present In All The Three States (solid, Liquid, And Gas). A Pictorial View Of The Hydrological Cycle Is Given In Fig. 1.1. The Science Of Hydrology Primarily Deals With The Land Portion Of The Hydrologic Cycle; Interactions With The Oceans And Atmosphere Are Also Studied. 7th, 2024

Module-14 Recognizing Self And Others - NPTEL
Johari Window (Luft & Ingham, 1955) Requires The Participants To Choose 56 - Adjectives From A Given Set Of 56 Adjectives That Describes Him/ Her. The Same Exercise Is Repeated By The Participant's Peers. The Selected Adjectives Are Mapped Onto A Grid As Shown Below. 13th, 2024

Module 9 - NPTEL
(d) Spiral Staircase (Fig. 9.20.1d) (e) Helicoidal Staircase (Fig. 9.20.1e) Architectural Considerations Involving Aesthetics, Structural Feasibility And Functional Requirements Are The Major Aspects To Select A Particular Type Of The Staircase. Other Influenci 3th, 2024

Module 4 Drives And Mechanisms Lecture 1 ... - Nptel.ac.in
AC Motors Convert Current Into AC The Rotation Of A Mechanical Element (mechanical Energy). As In The Case Of Motor, A Current Is Passed Through The Coil, Generating A DC Torque On The Coil. Typical Components Include A Stator And A Rotor. The Armature Of Rotor Is A Magnet Unlike DCmotors And The Stator Is Fo Rmed By Electromagnets Similar To DC 1th, 2024

Module 3 Aggregate Planning - NPTEL
12320*, Period 4: [1380 0 0 0] Cost = 17000, [300 1080 0 0] Cost = 16920, [620 0 760 0] Cost = 16480*, [1020 0 0 360] Cost = 16920. Best Solution Is To Produce 620 In Period 1 (for Periods 1 And 2) And 760 In Period 3 For Periods 3 And 4. 7. Consider The Demand For Four Periods (in ... 9th, 2024

Module 4 - NPTEL
The Major Cause Of Poor Listening Is Due To The Listener'semotional, Mental And Psychological -set. If There Ismind Any Dislike For The Speaker And Disapproval To His/her Ideas, The Listener Will Certainly Reconstruct Distorted And Negative . NPTEL- COMMUNICATION SKILLS 7th, 2024

Module 3 - NPTEL
The Sum Of Distribution Factor At A Joint, Except When It Is Fixed Is Always Equal To One. The Distribution Moments Are Developed Only When The Joints Rotate Under The Action Of Unbalanced Moment. In The Case Of Fixed Joint, It Does Not Rotate And Hence No Distribution Moments Are Developed And Consequently Distribution Factor Is Equal To Zero. 14th, 2024

Module 2 - NPTEL
A Continuous Beam Is Carrying Uniformly Distributed Load Of 2 KN/m As Shown In Fig.12.5a.The Moment Of Inertia Of Span ABC AB Is Twice That Of Span . Evaluate Reactions And Draw Bending Moment A 14th, 2024

Module 11 - NPTEL
• Identify Five Points Indicating The Differences Between The Design Of Foundation And The Design Of Other Elements Of The Superstructure, • Differentiate Between Footing And Foundation, • Differentiate Between Shallow And Deep Foundations, • Identify The Situation 12th, 2024

Module 11 - Nptel.ac.in
Design A Plain Concrete Footing For A Column Of 400 Mm X 400 Mm Carrying An Axial Load Of 400 KN Under Service Loads. Assume Safe Bearing Capacity Of Soil As 300 KN/m2 At A Depth Of 1 M Below The Ground Level. Use M 20 And Fe 415 For The Design. Solution 1: Plain Concrete Foot 3th, 2024

Module 1: Elasticity - NPTEL
Linear Elasticity As A General Three-dimensional Theory Has Been Developed In The Early 1820's Based On Cauchy's Work. Simultaneously, Navier Had Developed An Elasticity Theory Based On A Simple Particle Model, In Which Particles Interacted With Their Neighbours By A C 10th, 2024

Module 3 Organometallic Reagents - NPTEL

Dzhemilev Reaction It Involves The Reaction Of Alkenes With Grignard Reagent To Give Alkyl Magnesium Halide In The Presence Of Cp 2 ZrCl 2. This Method Had Found Wide Application In Organic And Organometallic Synthesis. R Cp 2 Z RCl 2 EtMgBr R Et MgB Cp = Kulinkovich Reaction The Reaction Of Esters With Dialkyldialkoxytitanium Reagents ... 1th, 2024

Module-07 - NPTEL

1) Equilibrium Phase Diagrams, Particle Strengthening By Precipitation And Precipitation Reactions 2) Kinetics Of Nucleation And Growth 3) The Iron-carbon System, Phase Transformations 4) Transformation Rate Effects And TTT Diagrams, Microstru 15th, 2024

Module 8 - NPTEL

8.19.6 Design Of Two-way Slabs The Procedure Of The Design Of Two-way Slabs Will Have All The Six Steps Mentioned In Sec. 8.18.6 For The Design Of One-way Slabs Except That The Bending Moments And Shear Forces Are Determined By Different Methods For The Two Types Of Slab. While The Bending Moments And Shear Forces Are Computed From The 13th, 2024

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