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(a)

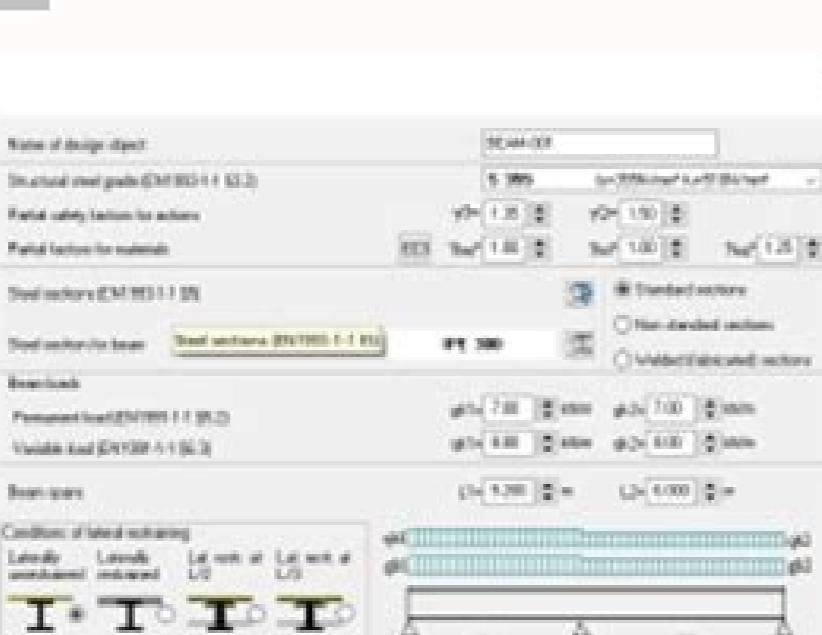
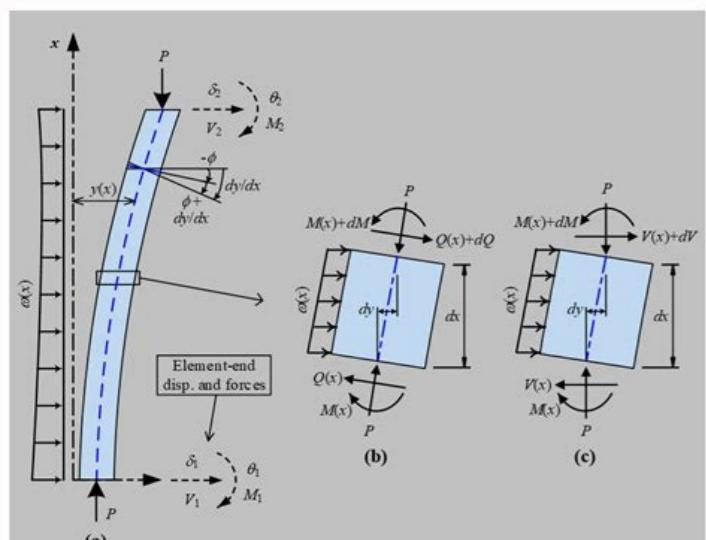


(b)

## MATERIAL

|                                  |          |                   |
|----------------------------------|----------|-------------------|
| MODULUS OF ELASTICITY, E =       | 2.00E+08 | kN/m <sup>2</sup> |
| YIELD STRENGTH, S <sub>Y</sub> = | 2.50E+05 | kN/m <sup>2</sup> |

| MATERIAL | MODULUS OF ELASTICITY      | ULTIMATE TENSILE STRENGTH               | YIELD STRENGTH                          |
|----------|----------------------------|---|---|
|          | - E -<br>kN/m <sup>2</sup> | - S <sub>U</sub> -<br>kN/m <sup>2</sup> | - S <sub>Y</sub> -<br>kN/m <sup>2</sup> |
| ALUMINUM | 6.90E+07                   | 110000                                  | 95000                                   |
| COPPER   | 1.17E+08                   | 220000                                  | 70000                                   |
| STEEL    | 2.00E+08                   | 400000                                  | 250000                                  |



What causes buckling of columns. Buckling theory of columns.

Language for Video Transcript: English Bengali Gujarati Hindi Kannada Malayalam Marathi Tamil Telugu Show Transcript SI.No Language Book link 1EnglishDownload 2BengaliNot Available3GujaratiNot Available4HindiNot Available5KannadaNot Available6MalayalamNot Available7MarathiNot Available8TamilNot Available9TeluguNot Available Week 1: Fundamental principles for elastic stability, Approximate methods in elasticity, Strong and weak forms of GDEWeek 2: Variational method in elastic problems, Euler-Lagrange equation for functional having different dependent variables, Principle of minimum potential energy, Rayleigh-Ritz methodWeek 3: Stability of rigid body systems for one-degree-of-freedom model by using different approaches, Two-degree-of-freedom structural model for stability analysis, Snap-through model and model with imperfect geometryWeek 4: Weak form solution for column with different boundary conditions, Strong form solution for column with different boundary conditions, Elastically supported columnsWeek 5: Elastically supported columns, Critical load of portal frames with different boundary conditions, Element stiffness matrix for beam-column, Stability analysis of frames by Matrix stiffness method/Finite element methodWeek 6: Buckling of Euler column, Large deflection theory, Euler column with initial imperfection, Load deflection curve for beam-column, Equilibrium approach and energy approach, Elastic curve of beam-columnWeek 7: Stability analysis of beam-columns, Three moment equation for continuous beam-column, Beam-column on elastic foundationWeek 8: St Venant torsion and non-uniform torsion, Torsional buckling, Torsional-flexural buckling, Rayleigh-Ritz method for torsional flexural buckling of columnWeek 9: Introduction to plate buckling and small deflection theory, Critical load of plate using equilibrium and energy approachWeek 10: Buckling of plates with different end conditions: Energy approach and Galerkin's method, Buckling and post buckling behaviour of plate using F-w formulation, Shell buckling using small deflection theoryWeek 11: Shell buckling: Solution of Donnell's equation, Shell buckling by using finite deflection theory, Post buckling of axially compressed cylindrical shell panelWeek 12: Buckling of rings, curved bars and arches, Inelastic stability analysis of column, Double modulus theory and tangent modulus theory

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