

CIEG-535: Elastic Inelastic of Structure

Solution of linear elastostatic problems using special techniques. Field equations of linear elastostatics; uniqueness of solution; Betti/Rayleigh reciprocity relation; solution of two-dimensional problems using stress functions; stress concentration at holes and inclusions; complex variables and transform methods in elasticity; stress singularity at cracks and corners; stresses and strains in composites; three-dimensional problems.

Credits: 3

Program: Civil Engineering