

97-2 大葉大學 完整版課綱 - 上課進度

上課進度		分配時數(%)				
週次	教學內容	講授	示範	習作	實驗	其他
1	Stress-Strain Relationship for an Isotropic Elastic Material, Basic Equation of Elasticity for Isotropic Bodies	80	10	10	0	0
2	Vectors and Tensors del Operator, Transformation of Coordinates	80	10	10	0	0
3	Tensor operations, Quotient Law, Equations of motion Principal Stresses, stress Deviations	80	10	10	0	0
4	Displacement, Velocity, Accelment Deformation Gradient, Strain Tensors, Conpatibility of Strain Components	80	10	10	0	0
5	Equilibrium of An Elastic Body under zero Body Force, Navier ' s Equation, Applications Of the Theory Of Linear Elasticity	80	10	10	0	0
6	Scalar and Vector Potentials, Equations of Motion in terms of Displacement Potentials	80	10	10	0	0
7	Strain Potential, Harmonic Functions, Galerkin Vector	80	10	10	0	0
8	Biharmonic Function, Galerkin Vector and Neuber-Papkovich Function in Dynamics	80	10	10	0	0
9	Biharmonic Function, Galerkin Vector and Neuber-Papkovich Function in Dynamics	80	10	10	0	0
10	Plane state Stress or Strain, Airy stress Function for Two-Dimensional Problem, Airy, Stress Function in Polor Coordinates, Axially Symmetric Problem	80	10	10	0	0
11	Solution by means of Complex Variable, Cauchy-Riemann Conditions, Kolosov-Muskhelishvili method	80	10	10	0	0
12	Example : 1.Plates Bounded by two Concentric Circles and 2.Elliptic Hole in a Plate under Simple Tension (Method of Conformal Transformation)	80	10	10	0	0
13	Steady-State Response to Moving Load, Galilean transformation, Alternate Method of Solution	80	10	10	0	0
14	Viscoelastic Models, Solution by using Laplace Transformation and Inversion, Kelvin `chain and general Maxwell model	80	10	10	0	0
15	Hereditary Integrals, Correspondence Principle, Viscoelastic beams,	80	10	10	0	0
16	Vibrations-dynamic behavior for a Viscoelastic Bar under Oscillating stress, Complex Compliances, Dissipation, Relations between Compliances, Two-dimensional problems	80	10	10	0	0
17	Minimization of Functional, Ealers ' Equation, Plasticity	80	10	10	0	0
Criteria						

