

Code: 13D35105

M.Tech I Semester Supplementary Examinations September/October 2015

EXPERIMENTAL STRESS ANALYSIS

(Computer Aided Structural Engineering)

(For students admitted in 2013 & 2014 only)

Time: 3 hours

Max. Marks: 60

**Answer any FIVE questions
All questions carry equal marks**

- 1 (a) What are the advantages of experimental stress analysis?
(b) Explain any two methods of stress analysis with neat sketches.
- 2 Write short notes on the following:
(a) Characteristics of a strain gauge.
(b) Tuckerman – optical strain gauge.
(c) Whittemore strain gauge.
- 3 (a) Describe in detail the working principle and limitations of a linear variable differential transformer with neat sketch.
(b) Write short note on bonding of strain gauge.
- 4 (a) The strain readings as measured by a T-delta rosette at a point in a stressed body are given by: $\epsilon_a = 225 \mu \text{ cm/cm}$; $\epsilon_b = 305 \mu \text{ cm/cm}$; $\epsilon_c = -274 \mu \text{ cm/cm}$; $\epsilon_d = -65 \mu \text{ cm/cm}$. Determine the principal stresses, maximum principal stress direction and maximum shear stress. Take $E = 2 \times 10^6 \text{ kg/cm}^2$, 0.30.
(b) What is a three dimensional strain rosette?
- 5 (a) Describe rebound hammer test for testing of concrete specimens with neat sketch.
(b) List out some of the advantages and disadvantages of non-destructive testing equipment's of concrete.
- 6 Write short notes on the following:
(a) Double exposure photography in photo-elasticity.
(b) Effect of a stressed model in polariscope.
(c) Integral fringe order.
- 7 Explain the following compensation techniques with neat sketches:
(a) The Babinet method.
(b) Tension strip method.
(c) Photo-metric method.
- 8 (a) What are the properties of an ideal photo-elastic material?
(b) Write short notes on the following:
(i) Columbia resin CR-39. (ii) Castolite and Bakelite.

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