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10ME761

Seventh Semester B.E. Degree Examination, Dec.2014/Jan.2015

### Experimental Stress Analysis

Time: 3 hrs.

Max. Marks: 100

*Note: Answer FIVE full questions, selecting at least TWO questions from each part.*

#### PART - A

1. a. Define gauge factor. Derive an expression for it. (10 Marks)  
b. Explain temperature compensation of strain gauges. Also explain the types of compensating gauges. (10 Marks)
2. a. Define a strain rosette. Mention the different types of strain rosette configurations with neat sketches. (06 Marks)  
b. A delta rosette yields the following strain indications  $\epsilon_1 = -845 \mu\text{m/m}$ ,  $\epsilon_2 = 1220 \mu\text{m/m}$  and  $\epsilon_3 = 710 \mu\text{m/m}$ . Calculate the maximum principal strain direction, the principal stresses and the maximum shear stresses. Take  $E = 200 \text{ GPa}$ ,  $\nu = 0.285$ . (14 Marks)
3. a. Define stress optic law. And derive it in two dimensional photoelasticity. (10 Marks)  
b. Explain the calibration method (i) using tension method, (ii) using the circular disc specimen. (10 Marks)
4. a. Explain the shear difference method for the separation of principal stresses. (10 Marks)  
b. What are the properties of an ideal photoelastic material? Discuss a few important photoelastic materials. (10 Marks)

#### PART - B

5. a. Explain stress freezing technique in 3-D photoelasticity. (10 Marks)  
b. Describe the set up of a scattered light polariscope. (10 Marks)
6. a. What is birefringence? Mention the assumptions made. Explain how stresses and strains can be measured using birefringent coating. (10 Marks)  
b. Explain with a neat sketch the principle and operation of a reflection polariscope. (10 Marks)
7. a. What is brittle coating technique? Explain bad relaxation technique of coating. Also mention its uses. (10 Marks)  
b. Explain crack-detection techniques in brittle coating method. (10 Marks)
8. a. What are the applications of moiré method of strain analysis? (04 Marks)  
b. Explain strain analysis by the displacement approach. (06 Marks)  
c. Explain the geometric approach of moiré fringe strain analysis. (10 Marks)

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**Kathleen Armour**



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