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Design of Machine Elements

Important 2mark questions

Unit I

1. List any three used in engineering applications.
2. What are preferred numbers?
3. Define fatigue stress concentration factor.

Unit II

1. State the function of couplings.
2. Write the advantages that hollow shafts offer as compared to solid shafts.
3. Why shafts are designed based on rigidity?

Unit III

1. List the applications of knuckle joints.
2. List out the advantages of the V-threads.
3. What are the advantages of welded joints?

Unit IV

1. Define surge in Springs.
2. State functions of flywheel.
3. Explain following terms used in helical springs.
 - (a) Free length
 - (b) Spring rate

Unit V

1. What do you mean by life of an individual bearing?
2. What do you mean by Rain mundi and Boyd graphs?
3. What are the essential condition for wedge film formation in Hydro dynamic bearing?