

Problem 1.11: Bearing reliability, deep groove ball bearing

Calculate the operating reliability $R(t=1000\text{hr})$ of a deep groove ball bearing. The calculated L_{10} life expectancy of the ball bearing is $L_{10} = 500 \cdot 10^6$ rev. The rotational speed is 4000 rpm.

Hint: The life expectancy of the ball bearings is related to the L_{10} basic rating life according (eq. 4.66, page 129).

**Problem 1.12: Reliability factor for Fatigue strength**

A power supply is cooled by 3 fans. The correct functioning of at least one of the three fans is required to maintain sufficient cooling. The operating reliability of the system needs to be 99% for a service life of 10.000 hr, $R_s(10.000 \text{ hr}) = 0.99$. The rotational speed is 4000 rpm.

- Estimate the required operating reliability R_i of the individual fans.
- Calculate the required L_{10} of the individual bearings.
- Calculate C/P

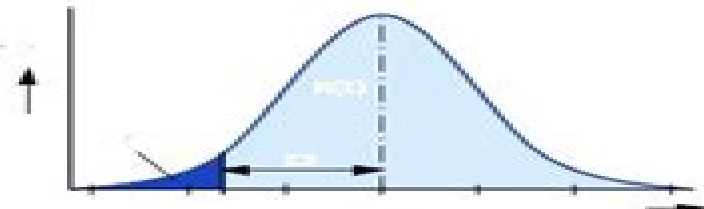
**Problem 1.13: Reliability factor for Fatigue strength**

Data published of the endurance strength are always mean values. In Norton (2000) is reported that the standard deviation of the endurance strength of steels seldom exceeds 8% of their mean. Estimate a correction factor for the endurance strength if a 99% probability is required.

**Problem 1.14: Component reliability**

Calculate the component reliability of a drive shaft (motor shaft) loaded in the High Cycle Fatigue (HCF) regime with $L_n = 2 \cdot 10^5$ load cycles.

Consider the calculated fatigue life of $L_{10} = 3 \cdot 10^5$ load cycles and a standard deviation of $\sigma = 0.2$.

**Problem 1.15: Stress concentration factor**

"A chain is only as strong as its weakest link, regardless of the strength of the stronger links". Do you agree and what do you think about the reliability if the failure mode is fatigue?

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Hanspeter Schaub, John L. Junkins, 2003

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Analysis in Rock Mechanics, Second Edition William G. Pariseau, 2011-09-29 This comprehensive introduction to rock mechanics treats the basics of rock mechanics in a clear and straightforward manner and discusses important design problems in terms of the mechanics of materials This extended second edition includes an additional chapter on rock bursts and bumps a part on basic dynamics and numerous additional examples and exercises throughout the chapters Developed for a complete class in rock engineering Design Analysis in Rock Mechanics Second Edition uniquely combines the design of surface and underground rock excavations and addresses Rock slope stability in surface excavations from planar block and wedge slides to rotational and toppling failures Shaft and tunnel stability ranging from naturally supported openings to analysis and design of artificial support and reinforcement systems Entries and pillars in stratified ground Three dimensional caverns with an emphasis on cable bolting and backfill Geometry and forces of chimney caving combination support and trough subsidence Rock bursts and bumps in underground excavations with a focus on dynamic phenomena and on fast and sometimes catastrophic failures The numerous exercises and examples familiarize the reader with solving basic practical problems in rock mechanics through various design analysis techniques and their applications Supporting the main text appendices provide supplementary information about rock joint and composite properties rock mass classification schemes useful formulas and an extensive literature list The large selection of problems at the end of each chapter can be used for homework assignments Explanatory and illustrative in character this volume is suited for courses in rock mechanics rock engineering and geological engineering design for undergraduate and first year graduate students in mining civil engineering and applied earth sciences Moreover it will form a good introduction to the subject of rock mechanics for earth scientists and engineers from other disciplines

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