

Creep Design

Complements of Machine Elements

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Mestrado em Engenharia Mecânica

All machine and structural designs are problems in fatigue because the forces of Nature are always at work and each object must respond in some fashion.

Carl Osgood

Recommended bibliography

 Haberhauer, Horst: Maschinenelemente. Springer Berlin Heidelberg, Berlin, Heidelberg, 2018, ISBN 978-3-662-53047-4

Hyperlink

Lecture 1

Lecture 2

References

Lecture 1

Summary

1. Introduction	??
2. Review on yield criteria	??
3. Effort ratio	??
4. Smith diagram	??
5. Equivalent moment	??

Lecture 2

Summary

1. DIN 743	??
2. Soderberg criterium	??
3. Comparison of different fatigue design criteria	??
4. Critical speed of a shaft	??

References

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