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Journal Bearings in Turbomachinery

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Journal Bearings in Turbomachinery (Paperback)

By David MacLeish Smith

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Condition: New. Language: English . Brand New Book *****

Print on Demand *****. This book deals with the functioning of hydrodynamic journal bearings in turbomachinery. It makes particular reference to large turbine- generator and marine propulsion plant. Journal-bearing design in this field has been based mainly on experience supplemented by full-scale experimental test. Development is becoming influenced to an increasing extent by research and analysis. Particular attention is given in this book to correlation of research and analytical work with the observed operating characteristics of journal bearings. The physical phenomena in bearings are complicated, and analysis is rendered convenient only by making simplifying assumptions. The engineer must know which assumptions are serviceable and in what operating conditions they may be applied. Current British and European practice in journal bearings is illus- trated. An examination is made of steady running characteristics, as predicted by theory and as established by test. Some account is given of the dynamic characteristics of journal bearings and of their influence in machine vibration. Service experience of journal bearings is reviewed, and reference is made to possible future trends in development. The book is the outcome of work...



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