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Richard Booser.

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and wear in  
machines.

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presentation of  
theory, application,  
classical forms, and  
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A journal bearing  
consists of an

approximately  
cylindrical body  
around a rotating  
shaft, used either to  
support a radial

load or simply as a  
guide for smooth  
transmission of

torque. This  
chapter focuses on

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Tribology bearings  
where gaseous  
cavitation is the  
primary mode and  
no bearing damage  
is expected either  
from normal film  
rupture or from air

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The primary focus of this book is the application of tribology to the design and analysis of bearings and related mechanical components. In order to make the book more useful to a wide audience, the authors attempted to maintain a balance

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between the theory  
and application of  
the technology,

giving particular  
emphasis to  
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equipment, steam  
and gas turbines,  
motors and  
generators,

transportation and  
marine equipment,

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technology in

bearings are wide

and varied in

industries ranging

from aerospace,

marine and

automotive to

power, process,

petrochemical and

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the brilliant,

fiercely ambitious,

emotionally

complex musician

and composer who

became court

astronomer to

Britain's King

George III, and of

William's sister,

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Caroline, who assisted him in his observations of the night sky and became an accomplished astronomer in her own right.

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automotive to  
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petrochemical and  
construction.

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covers tribology in

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bearings but

demonstrates the same principles for other machine

components, such

as piston pins,

piston rings and

hydrostatic lifts, as

well as in more ...

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bearings are made of a porous bush impregnated with oil, acting as an oil reservoir, thus avoiding any external oil supply for lubricating the contact between a rotating shaft and the stationary bush (or sometimes between a stationary shaft and

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(a rotating bush).

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PRINCIPLES AND  
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Tribology is applied  
to the emerging

science of friction,  
wear, and

lubrication involved  
at moving contacts.

Several distinct  
regimes are

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lubrication, with an  
intermediate range  
involving partial

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boundary or mixed  
lubrication.

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Self-acting bearings

are a class of  
bearings where  
rotation of the

journal sitting in an  
eccentric position

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with respect to the stationary boundary (cylindrical bushing or flat member)

generates a pressure field in the thin fluid-film layer lying therein and thus creates a load-supporting mechanism.

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