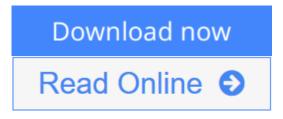


Gaskets: Design, Selection, and Testing

By Daniel E. Czernik Vice-President



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Don't Blow A Gasket. . . Pick up Daniel E. Czernik's Gasket Handbook instead and arm yourself with all the know-how you need to design dependable, environment-friendly, long-lasting, high-performance gaskets. It's the only guide to cover design, selection, performance, efficiency, reliability, and testing of every type of ``static'' seal gasket: chemical, o-ring, metallic, and non-metallic. You'll find all the latest ASME codes, the proposed new ASME gasket constants, and in-depth explanations of: initial seal creation; seal maintenance; stress distribution testing; gasket design and environmental conditions; gasket installation; joint and gasket design and selection; sealing enhancements; rubber gaskets; failure mode and effects analysis; o-ring seals; finite element analysis; computers and gaskets; chemical gaskets; and more.



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Editorial Review

From the Back Cover

Here is a surefire guide to the design, selection, performance, efficiency, reliability, and testing of all types of "static" seal gaskets. This book shows you how to create and utilize high-performance gaskets for valves, pumps, compressors, pressure vessels, boilers, and many other kinds of equipment. Gaskets fully examines both nonmetallic and metallic gaskets, and assesses gasket design relative to the higher temperatures and pressures of today's industrial applications, and to standards set by current environmental regulations. This expert reference presents detailed information on: initial seal creation and stress distribution testing; effective maintenance of the seal; joint and gasket design selection; gasket testing techniques; methods of leakage detection and rating; the latest ASME codes for gasket design and the proposed new ASME gasket constants. Filled with 200 helpful illustrations, this essential engineering tool also includes a wealth of material on gasket fabrication and installation...failure mode and effects analysis (FMEA) and finite element analysis (FEA) for gaskets...internal combustion engine gaskets...and much more.

About the Author

Daniel E. Czernik is Vice-President of Advanced Technology for Fel-Pro, Inc. in Skokie, Illinois, where he has been employed since 1969. Mr. Czernik holds numerous patents for sealing products, and he has written many influential papers in the field of sealing technology. He is a Fellow Member of the Society of Automotive Engineers. He is also the coauthor of Handbook of Fluid Sealing, published by McGraw-Hill.

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