



Expanders for Oil and Gas Operations: Design, Applications, and Troubleshooting (Mechanical Engineering)

By Murari Singh, Michael Drosjack, David Linden

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Effective methods for recovering gas energy using expanders

Expanders for Oil and Gas Operations offers in-depth details on different types of expanders, addressing the background, mechanical design features, design and operating requirements, operational processes, and potential problems for each class of expander. The book also discusses rotor dynamics, vibration theory, material strength, life estimation, and probabilistic analysis. The information in this practical, illustrated resource will help you to maintain and improve existing expanders and implement design enhancements for increased expander capacity as well as lifespan and maximum energy reuse.

Comprehensive coverage includes:

- CCU hot gas expanders
- Nitric acid expanders for chemical applications
- Turboexpanders/cryogenic turboexpanders
- Rotor dynamics
- Bladed disk vibration and reliability
- Damage in material and life analysis
- Probabilistic concept and risk assessment

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Editorial Review

About the Author

Murari P. Singh, Ph.D., is the President of Safe Technical Solutions, Inc. (SAFETSOL). He has been involved in the design, development, and analysis of industrial turbomachinery for more than 40 years with Turbodyne Corporation, Dresser Industries, Dresser Rand Company, GE CONMEC, and most recently, GE Oil & Gas as Consulting Engineer.

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David H. Linden is President of D.H. Linden Associates, Inc. He has 37 years of turbomachinery experience in a wide variety of areas that include hot gas expanders, steam turbines, axial compressors, power turbines, reliability, field engineering, and consulting. A renowned expert on FCC expanders, nitric acid expanders, and expander installations and applications, Linden has held positions as at steam turbine design engineer at Westinghouse Electric Corp, expander engineering supervisor and manager at Ingersoll-Rand, and founding partner of CONMEC, Inc.

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