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Expanders for Oil and Gas Operations: Design, Applications, and Troubleshooting

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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