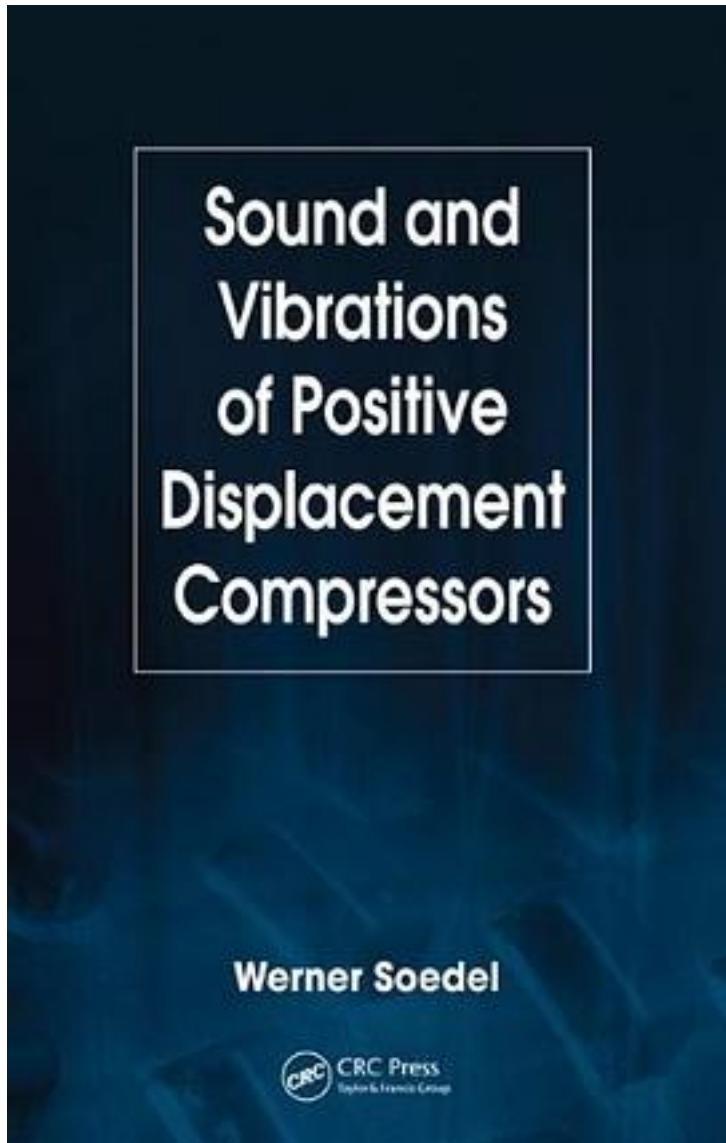


Sound and Vibrations of Positive Displacement Compressors



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著者:Soedel, Werner

出版者:CRC Pr I Llc

出版时间:2006-10

装帧:HRD

isbn:9780849370496

Positive displacement compressors are the most common type of compressor for commercial applications and among the most important in industrial use. Effective control of noise and vibration stems from a deep understanding of their sources, effects, and behavior in the compressor's various components. Based on more than 30 years of research and practical experience, "Sound and Vibrations of Positive Displacement Compressors" is the first book to combine theory and design guidelines dedicated solely to compressors. After introducing the sound- and vibration-producing mechanisms common to different types of compressors, the author discusses free and forced vibrations of compressor housing shells, mainly for hermetically sealed designs. He then examines vibration in casings and other components, such as suction and discharge tubes, along with surging in coil springs. Detailed chapters explore the design and vibrations of automatic plate or reed valves as well as the analysis and design of suction and discharge mufflers, while the final chapters cover multidimensional acoustics, measurements and source identification, electromotors, and the influence of lubrication oil on sound and vibrations. Illustrated by numerous diagrams and several case studies, "Sound and Vibrations of Positive Displacement Compressors" guides in the analysis and design of compressors for minimal sound and vibration production and suggests various noise control measures.

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