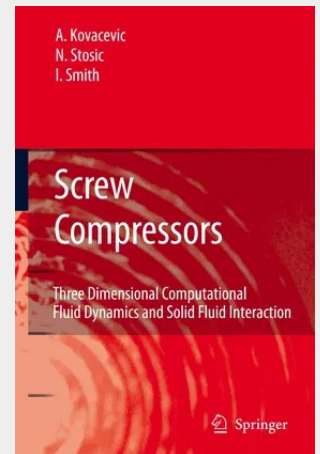


Screw Compressors

Three Dimensional Computational Fluid Dynamics and Solid Fluid Interaction

This book presents the most up-to-date methods of three-dimensional modeling of the fluid dynamics and the solid-fluid interaction within these machines, which are still being developed. Adding modeling to the design process makes it possible not only to predict flow patterns more accurately, and also to determine distorting effects on rotors and casing of pressure and temperature distribution within the compressor. Examples outline the scope of the applied mathematical model.

Description of the most up to date results of methods, based on the simulation of the fluid flow within a screw machine. Essential for the design of oil-free screw machines Includes supplementary material: sn.pub/extras



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