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The monograph highlights the operating principle, structural modifications and classifications of oil-free scroll vacuum pumps. Engineering solutions applied for SVP are analysed specifying their advantages and disadvantages. Experimental study procedure is described, and research findings are presented.

The book is intended for use by technicians in vacuum and compressor engineering. It will be useful for professors, Ph.D. fellows and students engaged in the training programs 15.03.02 “Technological machines and equipment”, 16.03.01 “Applied physics”, 14.03.01 “Nuclear engineering and thermal physics”, 28.03.02 “Nanoengineering”.

The monograph is prepared at the Department of Vacuum and compressor equipment of physical machines.

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