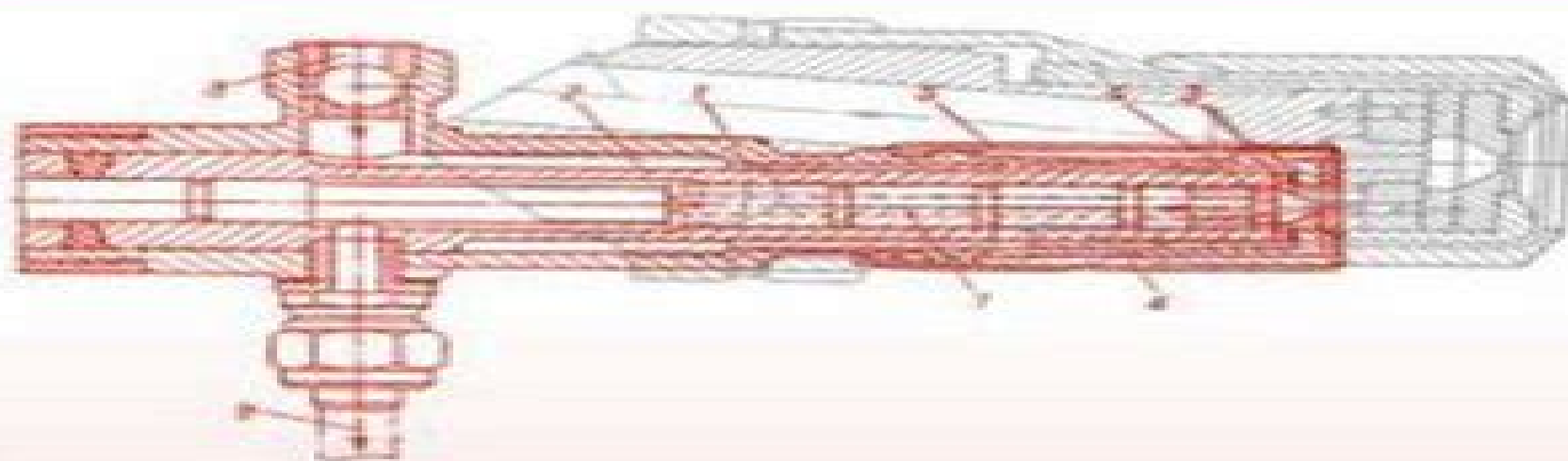


Theory and Practice of Swirl Atomizers



Yuriy I. Khavkin

Theory And Practice Of Swirl Atomizers Combustion An International Series

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Theory and Practice of Swirl Atomizers Yuriy I Khavkin, 2003-10-28 In this book prominent Russian scientist Yuriy I Khavkin shows that the droplet sizes in swirl atomizers depend only on the specific energy of the liquid drops and on viscosity The new theory based only on two parameters is shown to be far simpler and in better agreement with experimental data than any previous presentations The following topics are included in the book The solution of the Navier Stokes equation for a liquid rotating flow Atomizers for gas turbine combustion chambers Atomizers for high capacity steam boilers Atomizers for liquid propellant rocket engines Quality of liquid atomization by non swirl atomizers A unique table of experimental data of 232 atomizers enables the reader to find an atomizer with the flow rate from 5 kg h to 15 000 kg h Readers will also learn To create an atomizer with the given mean droplet size To create an atomizer with the given droplet size distribution To create an atomizer with the given limits of flow rate control The book is intended for the design engineer as well as the theoretical scientist

Handbook of Atomization and Sprays Nasser Ashgriz, 2011-02-18 Atomization and sprays are used in a wide range of industries mechanical chemical aerospace and civil engineering material science and metallurgy food pharmaceutical forestry environmental protection medicine agriculture meteorology and others Some specific applications are spray combustion in furnaces gas turbines and rockets spray drying and cooling air conditioning powdered metallurgy spray painting and coating inhalation therapy and many others The Handbook of Atomization and Sprays will bring together the fundamental and applied material from all fields into one comprehensive source Subject areas included in the reference are droplets theoretical models and numerical simulations phase Doppler particle analysis applications devices and more

Proceedings of the 9th Brazilian Technology Symposium (BTSym'23) Yuzo Iano, Osamu Saotome, Guillermo Leopoldo Kemper Vásquez, Maria Thereza de Moraes Gomes Rosa, Rangel Arthur, Gabriel Gomes de Oliveira, 2024-08-20 This book presents the proceedings of the 9th Brazilian Technology Symposium BTSym 23 The book discusses current technological issues on Systems Engineering Mathematics and Physical Sciences such as the Transmission Line Protein Modified Mortars Electromagnetic Properties Clock Domains Chebyshev Polynomials Satellite Control Systems Hough Transform Watershed Transform Blood Smear Images Toxoplasma Gondi Operation System Developments MIMO Systems Geothermal Photovoltaic Energy Systems Mineral Flotation Application CMOS Techniques Frameworks Developments Physiological Parameters Applications Brain Computer Interface Artificial Neural Networks Computational Vision Security Applications FPGA Applications IoT Residential Automation Data Acquisition Industry 4 0 Cyber Physical Systems Digital Image Processing Patterns Recognition Machine Learning Photocatalytic Process Physical Chemical Analysis Smoothing Filters Frequency Synthesizers Voltage Controlled Ring Oscillator Difference Amplifier Photocatalysis and Photodegradation and current technological issues on Human Smart and Sustainable Future of Cities such as the Digital Transformation Data Science Hydrothermal Dispatch Project Knowledge Transfer Immunization Programs

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