



Theory and Practice of Swirl Atomizers (Combustion: An International Series)

By Yuriy I Khavkin

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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.

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Review

""The highly detailed table of contents allows the engineer or scientist to quickly find pertinent sections of the text. Numerous tables, charts, graphs and figures graphically illustrate the concepts and information being presented. An author index, a subject index, references and a two-part appendix round out the book." "Khavkin's approach to the fundamental theories of calculations and function distinguish it as a unique approach and resource in the discipline...This book is recommended for libraries serving theoretical scientists and design engineers."

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About the Author

Yury Khavkin is the President of Vortex Combustion Engineering, Inc.

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