

ISSN 1044-5110
ATSPE2 6(4) 377-497 (1996)

ATOMIZATION AND SPRAYS

Journal of the International Institutes for Liquid Atomization
and Spray Systems

Norman Chigier
Editor

Volume 6
Number 4

July-August 1996

Atomization And Sprays Journal

Sergei S. Sazhin



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Atomization and Sprays, 2007 *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

Atomization and Sprays, 2009 *Droplets and Sprays* Sergei Sazhin, 2014-05-19 Providing a clear and systematic description of droplets and spray dynamic models this book maximises reader insight into the underlying physics of the processes involved outlines the development of new physical and mathematical models and broadens understanding of interactions between the complex physical processes which take place in sprays Complementing approaches based on the direct application of computational fluid dynamics CFD Droplets and Sprays treats both theoretical and practical aspects of internal combustion engine process such as the direct injection of liquid fuel subcritical heating and evaporation Including case studies that illustrate the approaches relevance to automotive applications it is also anticipated that the described models can find use in other areas such as in medicine and environmental science

Droplets and Sprays: Simple Models of Complex Processes Sergei S. Sazhin, 2022-06-28 This book acts as a guide to simple models that describe some of the complex fluid dynamics heat mass transfer and combustion processes in droplets and sprays Attention is focused mainly on the use of classical hydrodynamics and a combination of kinetic and hydrodynamic models to analyse the heating and evaporation of mono and multi component droplets The models were developed for cases when small and large numbers of components are present in droplets Some of these models are used for the prediction of time to puffing micro explosion of composite water fuel droplets processes that are widely used in combustion devices to stimulate disintegration of relatively large droplets into smaller ones The predictions of numerical codes based on these models are validated against experimental results where possible In most of the models droplets are assumed to be spherical some preliminary results of the generalisation of these models to the case of non spherical droplets approximating them as spheroids are presented

Process-Spray Udo Fritsching, 2016-08-01 This book describes the latest research on producing functional particles using spray processes The authors detail micro level elementary processes and phase boundaries process analysis scaling and modeling and macro level process functions and particle properties They include numerical simulations and particulars of experiments for deriving process conditions for particle production

Recent Advances in Spray Combustion Kenneth K. Kuo, 1996 **Proceedings of the 1st International Conference on Liquid Atomization and Spray Systems, Tokyo,**

August 27-31, 1978, 1979 **Atomization and Sprays** Arthur Lefebvre, 1988-12-01 Atomization and Sprays examines the atomization of liquids and characteristics of sprays It explains the physical processes of atomization as well as guidelines for designing atomizers In addition it demonstrates how the importance of the size and velocity of a particle contributes to improved spray characterization Coverage includes general co *Paper*, 2001 **ASME Technical Papers**, 2001
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Development of a Next-generation Spray and Atomization Model Using an Eulerian-Lagrangian Methodology Wei Ning, 2007

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