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Atomization And Sprays Journal

The application and utilization of sprays is not new, and in modern society, it is extensive enough that almost every industry and household uses some form of sprays. What is new is an increasing scientific interest in atomization - the need to understand the physical structure of liquids under conditions of higher shear rates and interaction with gaseous flow.

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Configuration of shadowgraph droplet analyzer, AAS Vol. 19, Iss. 9, Assessment of Parameters for Distinguishing Droplet Shape in a Spray Field Using Image-Based Techniques.

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Home > Journals > Atomization and Sprays > Volume 30, 2020
Issue 1 IF: 1.737 5-Year IF: 1.518 SJR : 0.814 SNIP : 1.18
CiteScore™ : 2.2 ISSN Print: 1044-5110

Atomization and Sprays - Volume 30, 2020 Issue 1 - Begell ...

International journal of spray and combustion dynamics Volume.5
· Number. 2 – pages 85 – 121 85 A Review on Atomization and
Sprays of Biofuels for IC Engine Applications Prasad Boggavarapu
and R. V. Ravikrishna* Combustion and Spray Laboratory

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The second edition of this long-time bestseller provides a framework for designing and understanding sprays for a wide array of engineering applications. The text contains correlations and design tools that can be easily understood and used in relating the design of atomizers to the resulting spray behavior. Written to be accessible to readers with a modest technical background, the emphasis ...

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The atomization process of swirling sprays in gas turbine engines has been investigated using a LES-VOF model. With fine grid resolution, the ligament and droplet formation processes are captured in detail. The spray structure of fully developed sprays and the flow field are observed firstly. A central recirculation zone is generated inside the hollow cone section due to the entrainment of air ...

Numerical Investigation on Primary Atomization Mechanism ...

Olinger et al. [18] holographically measured the atomization effect of liquid jet in subsonic air crossflow and reconstructed the spray field in three dimensions. Numerous regime maps for

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predicting the primary breakup modes of a non-turbulent liquid jet injected into subsonic air crossflow have been proposed in the literature.

Spray and mixing characteristics of liquid jet in a ...

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Atomization and Sprays: Journal of the International ...

Atomization involves the formation of powder from molten metal using a spray of either a gas or liquid. This is the most significant method of producing metal powder particles. In gas atomization, generally inert gases like nitrogen, helium, or argon are used for breaking up the stream of molten metal.

Atomization - an overview | ScienceDirect Topics

A new atomization nozzle based on ink jet technology is introduced for spray drying. Application areas are the food and dairy industry, in the first instance, because in these industries

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(PDF) New Atomization Nozzle for Spray Drying

This paper deals with a numerical and experimental characterization of a high-pressure diesel spray injected by a common-rail injection system. The experiments considered a free non-evaporating spray and they were performed in a vessel reproducing the practical density that characterizes a D.I. diesel engine at injection time.

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