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The numerical results show that an increasing degree of atomization leads to a decreasing spray cone-angle, small droplets form a solid-like structure near the injector exit and a roll-shaped structure near the starting vortex, and large drops maintain a hollow-cone structure because of their large inertia.

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0521820987 - Spray Simulation - Modelling and Numerical Simulation of Sprayforming Metals - by Udo Fritsching Frontmatter/Prelims More information Spray Simulation. Spray forming combines the metallurgical processes of metal casting and powder metallurgy to fabricate metal products with enhanced properties.

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After injection, slight discrepancies can be seen for the long-time spray spread ratio between experimental and numerical results, and Zhang et al.'s model predicts smaller  $r_d$  than the other predictions, because Zhang et al.'s model predicts more droplet bouncing results in the more kinetic energy dissipation therefore suppresses droplet and spray spread, to be discussed in the following text.

*Numerical simulation of impinging spray characteristics ...*

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Spray forming combines the metallurgical processes of metal casting and powder metallurgy to fabricate metal products with enhanced properties. This book provides an introduction to the various modelling and simulation techniques employed in spray forming, and shows how they are applied in process analysis and development.

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Another central aspect of spray modeling is the representation of the particulate phase. The numerical models studied as part of this work are the one-dimensional turbulence model for the breakup of a liquid jet combined with standard Lagrangian methods as well as a family of Eulerian population balance models, the so-called quadrature-based moment methods.

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