Development Of A Next-generation Spray And Atomization Model Using An Eulerian-Lagrangian Methodology

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Summary : Free development of a next-generation spray and atomization model using an eulerian-lagrangian methodology pdf download - a three-dimensional homogeneous equilibrium model was developed to simulate the cavitating flows within diesel injector nozzle passages the effects of nozzle passage geometry and injection conditions on the development of cavitation zones and nozzle discharge coefficients were investigated the predicted flow quantities at the nozzle exit were applied to the downstream spray atomization modeling as inflow boundary conditions vaporization in the eulerian liquid phase was accounted for with an equilibrium evaporation model finally the present new models were used to predict diesel spray atomization processes and the numerical results compared favorably with experimental data

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