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Aerodynamics - Wikipedia

Books. Pozrikidis, C. (1992) Boundary Integral and Singularity Methods for Linearized Viscous Flow. Cambridge University Press. Pozrikidis, C. (1997, 2011) Introduction to Theoretical and Computational Fluid Dynamics. First Edition (1997), Second Edition (2011), Oxford University Press. Pozrikidis, C. (1998, 2008) Numerical Computation in Science and Engineering.

C Pozrikidis - Dehesa Scientific Computing

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Liquid - Wikipedia
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JOURNAL OF COMPUTATIONAL PHYSICS 39, 201-225 (1981) Volume of Fluid (VOF) Method for the Dynamics of Free Boundaries* C. W. HIRT AND B. D. NICHOLS Los Alamos Scientific Laboratory, Los Alamos, New Mexico 87545 Received November 1, 1979 Several methods have been previously used to approximate free boundaries in finite- difference numerical simulations.

Volume of fluid (VOF) method for the dynamics of free ...
where ρ is the density, u the flow velocity, p the pressure, μ the dynamic viscosity and g the acceleration due to gravity. In order to better capture the turbulence due to the laser plume, but also to expand the stable solution space of the model, the RANS SST turbulence model was used.

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