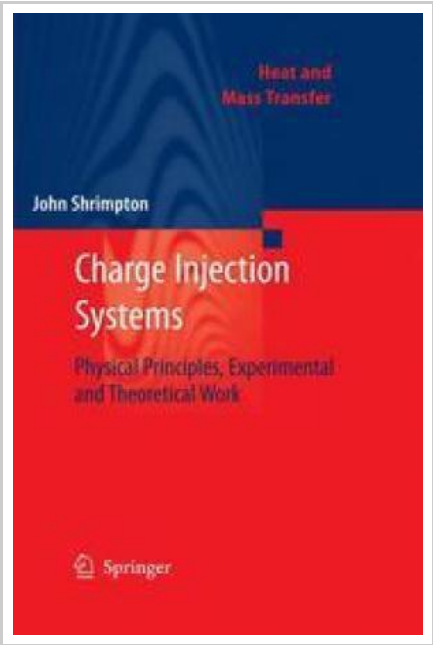



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# Charge Injection Systems: Physical Principles, Experimental and Theoretical Work

By J. S. Shrimpton

Springer. Paperback. Book Condition: New. Paperback. 196 pages. Dimensions: 9.2in. x 6.1in. x 0.5in.C Specific heat at constant pressure p D Displacement field D Diffusion coefficient d D Orifice diameter E Electric field E Electron charge F Force G Acceleration due to gravity I Current J Current flux K Conductivity k Boltzmann constant B L Atomizer geometry: length from electrode tip to orifice plane i L Atomizer geometry : length of orifice channel o P Polarization Q Flow rateHeat flux Q Charge r Atomizer geometry : electrode tip radius p T Time T Temperature U Velocity V Voltage W Energy X Distance Nomenclature (Greek) Thermal expansion coefficient Permittivity Permutation operator ijk Ion mobility VI Nomenclature Debye length D Dynamic viscosity Mass density Surface tension T Electrical conductivity Timescale Vorticity Nomenclature (Subscripts) Reference state o Cartesian tensor notation ijk Volume density ( per unit volume) v Surface density ( per unit area) s Linear density ( per unit length) l critical state c Bulk mean injection inj Nomenclature (Superscripts) Time or ensemble averaged Contents Contents 1 Introduction. 1 1. 1 Introduction and Scope. . 1 1. 2 Organization. . 3 2 Electrostatics, Electrohydrodynamic Flow, Coupling and Instability. . . 5 2....

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