Charge Injection Systems

By John Shrimpton

Springer-Verlag Gmbh Jun 2009, 2009. Buch. Book Condition: Neu. 242x165x19 mm. Neuware - 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 rate/Heat 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 2.1 Electrostatics. 5 2.1.1 The Coulomb Force....

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