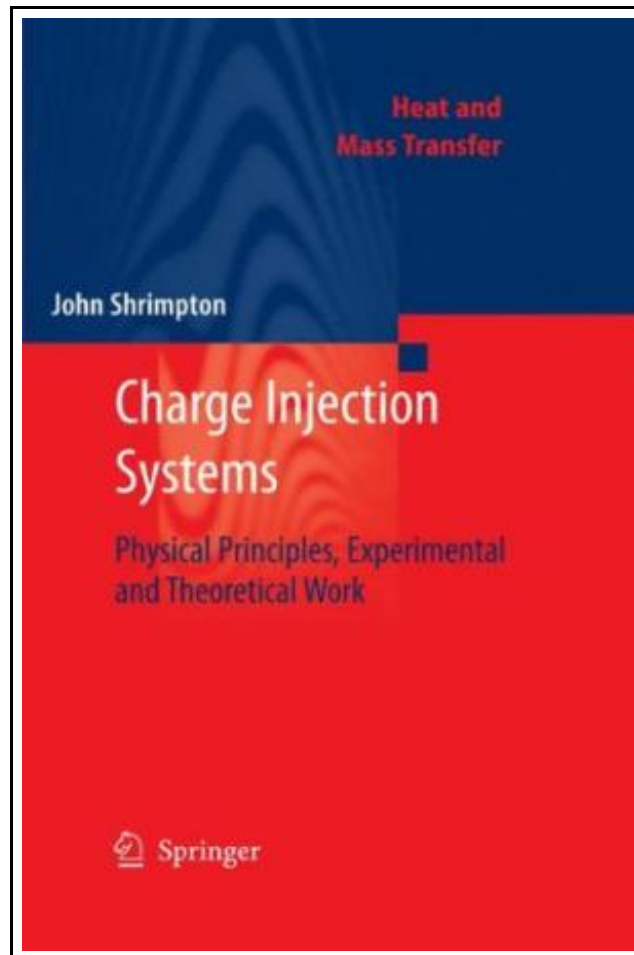


## Charge Injection Systems



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## CHARGE INJECTION SYSTEMS



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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. 5 2.1.2 Permittivity. 6 2.1.3 Conductors, Insulators, Dielectrics and Polarization. 6 2.1.4 Gauss's Law. 8 2.2 Mobility and Charge Transport. 10 2.2.1 Introduction. 10 196 pp. Englisch.



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