

*Electrokinetics And Electrohydrodynamics In Microsystems Cism  
International Centre For Mechanical Sciences*







### **Electrokinetics And Electrohydrodynamics In Microsystems**

Electrokinetics and Electrohydrodynamics in Microsystems. June 22, 2009 — June 26, 2009.

Coordinator: Antonio Ramos (University of Seville, Spain) The manipulation of colloidal particles and fluids in microsystems has many existing and potential applications.

### **Electrokinetics and Electrohydrodynamics in Microsystems**

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### **Electrokinetics and Electrohydrodynamics in Microsystems ...**

Electrokinetics and Electrohydrodynamics in Microsystems. The book provides a state-of-the-art knowledge on both theoretical and applied aspects of the electrical manipulation of colloidal particles and fluids in microsystems and covers the following topics: dielectrophoresis, electrowetting, electrohydrodynamics in microsystems,...

### **Electrokinetics and Electrohydrodynamics in Microsystems ...**

The book covers the following topics: Dielectrophoresis (DEP), Electrowetting, Electrohydrodynamics (EHD) in microsystems, and Electrokinetics of fluids and particles. The first three chapters of this book are dedicated to Dielectrophoresis.

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Electrokinetics and Electrohydrodynamics in Microsystems (CISM International Centre for Mechanical Sciences) [Antonio Ramos] on Amazon.com. \*FREE\* shipping on qualifying offers. This book details both theoretical and applied aspects of the electrical manipulation of colloidal particles and fluids in microsystems. Coverage includes dielectrophoresis

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### **Electrokinetics and electrohydrodynamics in microsystems ...**

ELECTROKINETICS AND ELECTROHYDRODYNAMICS IN MICROSYSTEMS The manipulation of colloidal particles and fluids in microsystems has many existing and potential applications. Among the most promising techniques to handle small objects at the micro-metre scale are those that employ electrical forces, which have the advantages of voltage-based

### **ELECTROKINETICS AND ELECTROHYDRODYNAMICS**

The electrical manipulation of fluids in microsystems can be divided loosely into two categories: digital microfluidics, where the liquid is subdivided into droplets that are manipulated (e.g. Electrowetting); and continuous microfluidics, where the liquid flows through conduits (e.g. Electrohydrodynamics and Electrokinetics).

### **Electrokinetics and Electrohydrodynamics in Microsystems ...**

Electrokinetics and Electrohydrodynamics in Microsystems Suggested readings. A. Castellanos (Ed.), "Electrohydrodynamics", CISM Courses and Lectures no. 380 ...

### **Electrokinetics and Electrohydrodynamics in Microsystems**

180 Chuan-Hua Chen where  $c$  is the reduced ionic concentration (Levich, 1962). Under electro-neutrality, the conductivity is proportional to this reduced concentration by  $\sigma = F^2(m^+ + m^-)c$ . (10) To derive the governing equation for conductivity, we start from the

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