CHALMERS

Chalmers Thesis Template for LaTeX

Master's Thesis in Complex Adaptive Systems

JONAS EINARSSON

Department of Physics & Engineering Physics
Non-linear Dynamics & Statistical Physics
Chalmers University of Technology
Gothenburg, Sweden 2011
Master's Thesis 2011:1

Abstract

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Acknowledgements

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

The Authors, Location 11/9/11

Contents

1

Introduction

Short introductory text here...

1.1 Section

Something more here...

1.2 Outline

How is this report structured?

2

Electrohydrodynamics in microchannels

In this chapter some fundamental physics behind electrokinetic flow, important for later discussions, will be presented. Also a modelling approach based on the coupling of Navier-Stokes, Nernst-Planck and Poission's equations is given.

2.1 Electrical double layers

2.2 Pressure-driven electrokinetic flow

2.3 Physical model