

Lab-on-a-Chip Devices and Micro-Total Analysis Systems

Jaime Castillo-León • Winnie E. Svendsen
Editors

Lab-on-a-Chip Devices and Micro-Total Analysis Systems

A Practical Guide

 Springer

Editors

Jaime Castillo-León
Sol Voltaics AB
Lund
Sweden

Winnie E. Svendsen
Department of Micro- and Nanotechnology
Technical University of Denmark
Kgs. Lyngby
Denmark

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Preface

Lab-on-a-Chip Devices and Micro-Total Analysis Systems: A Practical Guide is a result of the research and teaching activities of a group of scientists worldwide who wrote the chapters of this book dealing with the design, simulation fabrication, and application of lab-on-a-chip and micro-total analysis systems. In a very didactic way this book covers the most important steps for the development of lab-on-a-chip devices and presents the state of the art in the use of new materials and novel uses of this technology.

We would like to thank all the authors contributing to this book for their effort in helping us to put together this work. We also would like to thank Springer for inviting us to publish this book and all the support during its preparation.

We hope that this work will motivate a broad audience of students and researchers interested in lab-on-a-chip and micro-total analysis systems so as to consider these technologies as an alternative in their research. Here they will find the advantages and challenges when working with these devices as well as inspiring examples of work carried out using microfluidic platforms.

Lund, Sweden
Kongens Lyngby, Denmark

Jaime Castillo-León
Winnie E. Svendsen

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