

# Micromachining Using Electrochemical Discharge Phenomenon: Fundamentals and Application of Spark Assisted Chemical Engraving (Micro and Nano Technologies)

Rolf Wuthrich, Jana D. Abou Ziki

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Micromachining Using Electrochemical Discharge Phenomenon: Fundamentals and Application of Spark Assisted Chemical Engraving (Micro and Nano Technologies) Rolf Wuthrich, Jana D. Abou Ziki This book explains the fundamentals of SACE, promotes the technology, and encourages researchers and engineers from industry to use it for their specific applications. Therefore, the book, after presenting in details the fundaments of SACE (in particular the Electrochemical Discharges), deals mainly with practical aspects of implementing the machining technology. The book is written so that researchers from fields other than micro-technology (e.g., from life science) will be able to build a simple machining set-up, together with his mechanical work-shop, for individual needs.

- Topics include: micro- and electrochemical discharge machining (including glass), microfluidics, non-conventional manufacturing, electrochemical discharges, biocompatibility, and anode effects
- Provides applicable information for engineers in industry dealing with micromachining of glass, polymers, and ceramics
- Covers a range of microfluidic devices (including micro-TAS) with applications in various fields like chemistry and life sciences



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