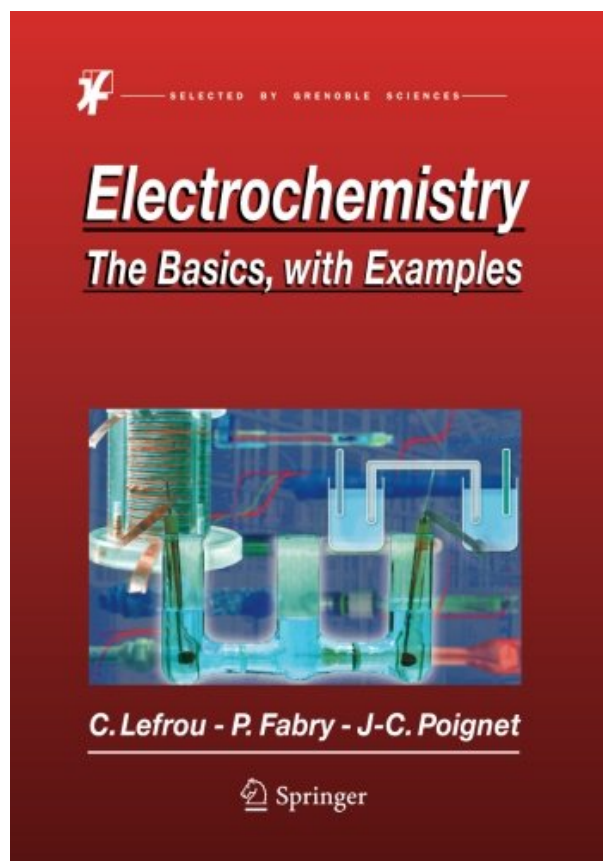


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Electrochemistry

The Basics, with Examples



C. Lefrou - P. Fabry - J-C. Poignet

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From the Back Cover

This textbook offers original and new approaches to the teaching of electrochemical concepts, principles and applications. Throughout the text the authors provide a balanced coverage of the thermodynamic and kinetic processes at the heart of electrochemical systems. The first half of the book outlines fundamental concepts appropriate to undergraduate students and the second half gives an in-depth account of electrochemical systems suitable for experienced scientists and course lecturers. Concepts are clearly explained and mathematical treatments are kept to a minimum or reported in appendices.

This book features:

- Questions and answers for self-assessment
- Basic and advanced level numerical descriptions
- Illustrated electrochemistry applications

This book is accessible to both novice and experienced electrochemists and supports a deep understanding of the fundamental principles and laws of electrochemistry.

About the Author

Christine Lefrou is a graduate of ENS (Ecole Normale Supérieure), the elite French institution of higher education and research, and currently a university lecturer at the PHELMA engineering school (Physics, Applied Physics, Electronics and Materials Science), part of the Grenoble Institute of Technology (INP). She teaches electrochemistry on core education courses, as well as on a wide array of continuing education

courses. Her research work to date has mainly focused on applying the concept of modeling material transport to the field of electrochemistry (batteries and electroanalysis).

Pierre Fabry is a university-trained physicist, who was formerly a professor at Grenoble University (Université Joseph Fourier). He has taught electrochemistry and the structure of materials at university level, (undergraduate and master's degrees) as well as at engineering schools, and on adult training courses. His research work has focused specifically on the subject of electrochemical solids for high-temperature energy storage systems and electrochemical sensors for biomedical and environmental applications.

Jean-Claude Poignet was formerly a Professor of electrochemistry at the Grenoble Institute of Technology (INP). After completing a thesis on the structure and transport properties of molten salts, he then focused his research career on studying low temperature ionic liquids, before turning his attention towards electrochemistry of molten salts between 450 and 1000°C: electrode and electrolyte materials for thermal batteries, Li or Na solutions dissolved in molten LiCl or NaCl, the cathodic separation of lanthanides and actinides and the electrosynthesis of Na, Al, Nb and Pu

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Great book

By mike reader

The book is great. It's really a great source for people who want to know more about electrochemistry.

However the author writes that EDM (Electrical Discharge Machining) is not a part of electrochemistry. I agree. But there is (ECM) Electrochemical Machining which is a part of electrochemistry. This is a method for removing metal by electrolyte and electrical current.

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