



Electrochemical Systems, 3rd Edition

By John Newman, Karen E. Thomas-Alyea

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The new edition of the cornerstone text on electrochemistry

Spans all the areas of electrochemistry, from the basics of thermodynamics and electrode kinetics to transport phenomena in electrolytes, metals, and semiconductors. Newly updated and expanded, the Third Edition covers important new treatments, ideas, and technologies while also increasing the book's accessibility for readers in related fields.

- Rigorous and complete presentation of the fundamental concepts
- In-depth examples applying the concepts to real-life design problems
- Homework problems ranging from the reinforcing to the highly thought-provoking
- Extensive bibliography giving both the historical development of the field and references for the practicing electrochemist.

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Electrochemical Systems, 3rd Edition By John Newman, Karen E. Thomas-Alyea Bibliography

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Editorial Review

Review

"...a solid, well-rounded discussion of the principal aspects of electrochemistry and is well suited for use as a graduate-level textbook. Also, it will make a valuable personal library addition for the corrosion professional..." (*Corrosion*, December 2005)

"Newman obviously has extensive experience in electrochemistry, as evidenced by his sophisticated treatment of the subject in this volume." (*Journal of Metals Online*, March 8, 2005)

"...it will be a useful to anyone involved in the practice of electrochemistry...highly recommended."
(*CHOICE*, November 2004)

From the Publisher

Theoretical treatment of electrochemistry for advanced courses and Professional Reference.

From the Back Cover

The new edition of the cornerstone text on electrochemistry

Electrochemistry represents a dynamic field with many applications in today's industrial economy: batteries and fuel cells; production and refining of metals and chemicals; fabricating of electronic materials and devices; operation of sensors; and understanding nerve action and drug delivery. The understanding and design of electrochemical systems is both fascinating and challenging because of the simultaneous interplay of mass transport, fluid dynamics, charge transport, electrochemical kinetics, and thermal effects.

The recognized standard of the field, *Electrochemical Systems* thoroughly covers a wide range of systems and topics in electrochemical engineering. Newly updated and expanded, the Third Edition of this cornerstone text features:

- Rigorous and complete presentation of the fundamental concepts
- In-depth examples applying the concepts to real-life design problems
- Homework problems ranging from the reinforcing to the highly thought-provoking
- Extensive bibliography giving both the historical development of the field and references for the practicing electrochemist

Suitable for serious study and application, the material presented spans all the major areas of electrochemistry, from the basics of thermodynamics and electrode kinetics to transport phenomena in electrolytes, metals, and semiconductors. Revisions and additions in this Third Edition cover important new treatments, ideas, and technologies while also increasing the book's accessibility for readers in related fields. *Electrochemical Systems*, Third Edition offers researchers, developers, and advanced students an essential update of this benchmark reference.

Users Review

From reader reviews:

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