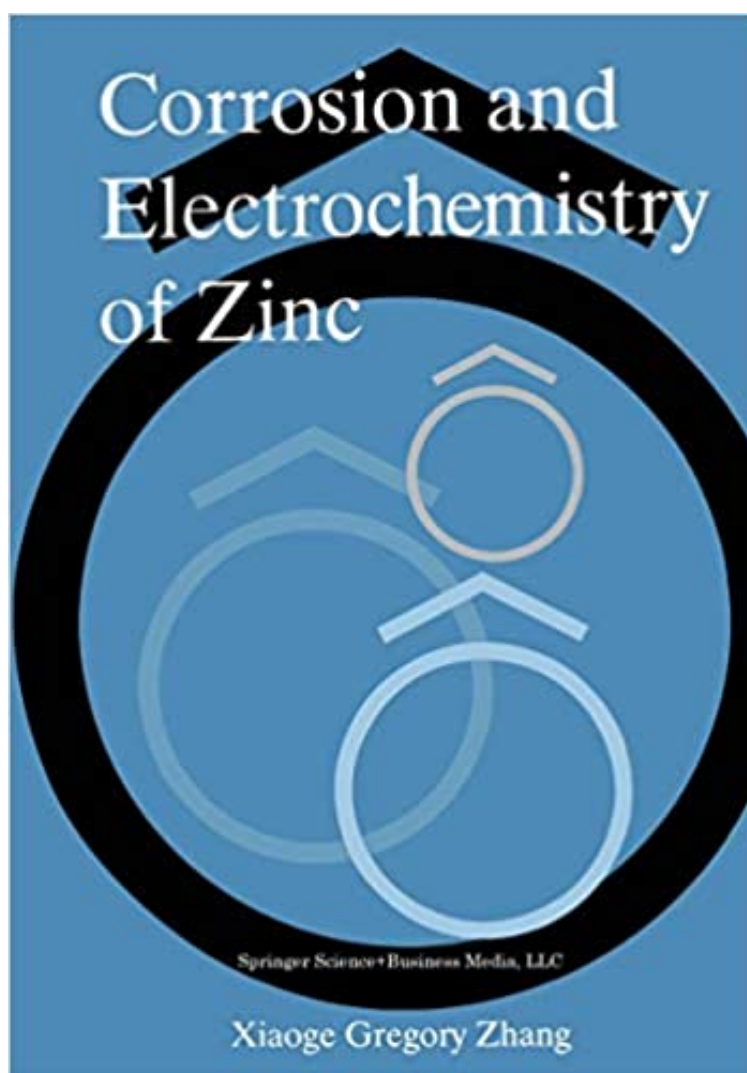


Corrosion and Electrochemistry of Zinc

by

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Synopsis

Humankind's use of zinc stretches back to antiquity, and it was a component in some of the earliest known alloy systems. Even though metallic zinc was not "discovered" in Europe until 1746 (by Marggral), zinc ores were used for making brass in biblical times, and an 87% zinc alloy was found in prehistoric ruins in Transylvania. Also, zinc (the metal) was produced in quantity in India as far back as the thirteenth century, well before it was recognized as being a separate element. The uses of zinc are manifold, ranging from galvanizing to die castings to electronics. It is a preferred anode material in high-energy-density batteries (e.g., Ni/Zn, Ag/Zn, Zn/Jair), so that its electrochemistry, particularly in alkaline media, has been extensively explored. In the passive state, zinc is photoelectrochemically active, with the passive film displaying n-type characteristics. For the same reason that zinc is considered to be an excellent battery anode, it has found extensive use as a sacrificial anode for the protection of ships and pipelines from corrosion. Indeed, aside from zinc's well-known attributes as an alloying element, its widespread use is principally due to its electrochemical properties, which include a well-placed position in the galvanic series for protecting iron and steel in natural aqueous environments and its reversible dissolution behavior in alkaline solutions.

Sort review

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model of living. Of all the books on living simply that I've seen, this is one of the most straightforward, practical and useful. Advice for simplicity in the real world from real people-- advice that actually works--in one book that I can pick up and open to any page for great ideas. This new addition to Michael Angier's '101 Great Ideas' library is a winner!"--Rick Frishman, president, co-author of AUTHOR 101 series of books "If simplicity is more than just a buzzphrase to you; if a simpler life is more than just a passing phase to you, then you need this book. When I first heard of the concept, I was intrigued: survey thousands of people for their best ideas, tips and advice on how to simplify life and publish their responses in a book. Now that I've read it, I'm even more impressed. Organized into relevant categories, these 101 ideas are very practical words of wisdom. By implementing even a small percentage of these ideas, my life will transform . . . Simply!"--Dr. Philip Humbert author, speaker, personal success coach "Simplify. Simplify. Simplify. In this over-complicated world we live in, we must find ways to lead simpler lives in order to make room to move forward. Your excellent book, '101 Great Ideas to Simplify Your Life,' hits the nail squarely on the head, with practical and actionable advice that will indeed simplify and greatly improve your life. I especially like your 'one year rule.' Having just experienced a severe 'closet cleaning,' I felt the freedom that just this one action brought. Michael's book provides plenty more great ideas that I need to implement. I wholeheartedly recommend this as a must-read for everyone."--Rick Beneteau award-winning author and host of the Mentor Message Podcasts "A Lifesaver! If you've 'had it' and are ready for a simpler life, this book is for you! Best Life Architect Michael Angier shows you how to 'file it, finish it, or forget it.' Not only does he reveal how to declutter any "gunk" that is complicating your life, but you also learn how to keep it that way! If you only buy one book on simplifying your life, make it this one!"-- Kristie Tamsevicius author of I Love My Life: A Mom's Guide to Working from Home "I love this book! I love it so much, I was going to write a similar book myself--that's how vital I believe the subject of simplifying your life is. It is at the core of finding peace, happiness and balance. And now you have done me a great favor--you have saved me the time of writing the book myself! So thank you on behalf of all of my subscribers who I know will reap a lifetime of benefits from your beautifully compiled book. And thank you for putting into words the many suggestions I never even thought of--which I will now use to further simplify my own life!"--Dr. Michael Norwood best-selling author of The 9 Insights of the Wealthy Soul "Several months ago I put a big yellow sticky note on one of my kitchen cabinets. I had a single question on it: 'How can I make my life simpler?' I put it there to focus my attention on that one thought because life was getting much too complicated. There's so much input these days--glorious when you want it, a nightmare when you don't. Every time I went into the kitchen and looked at the note, my brain went searching for an answer. But just as quickly, there would be something that needed my attention and off I went. And then--like a wonder of wonders--Michael and Dawn Angier invite me to review Michael's latest book 101 Great Ideas to Simplify Your Life. After I stopped laughing at the odd coincidence, I simply approached Michael's work with gratitude. He's written a book that fits perfectly into my life right now-- and yours--if you're a busy professional like me. I can read any

one page and get a solution I can use to lighten up my life. I simply say 'Thank you, thank you' to all the wonderful people who contributed to Michael's new book--and to Michael--for writing such a meaningful piece of work. Thanks for giving me a very handy tool, just at the right time. --
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