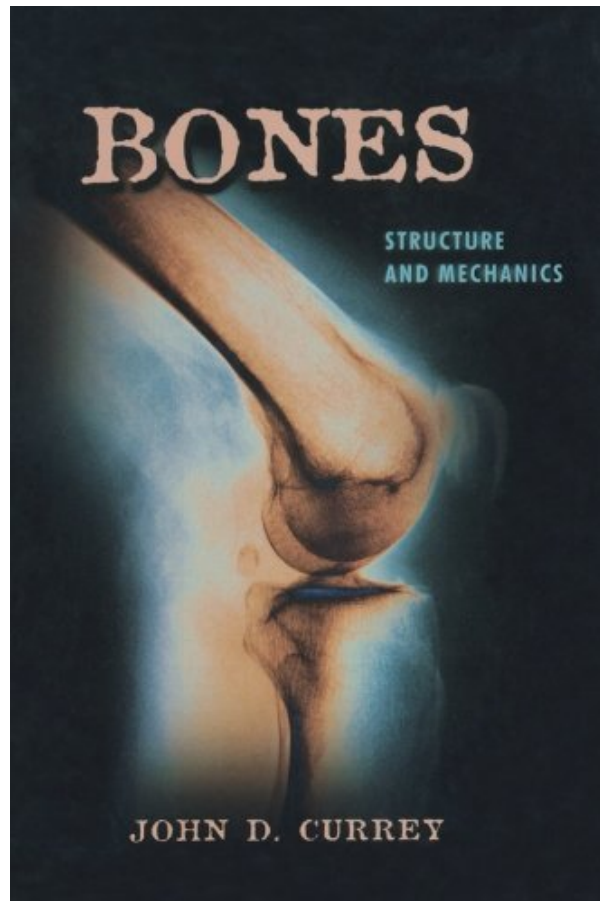
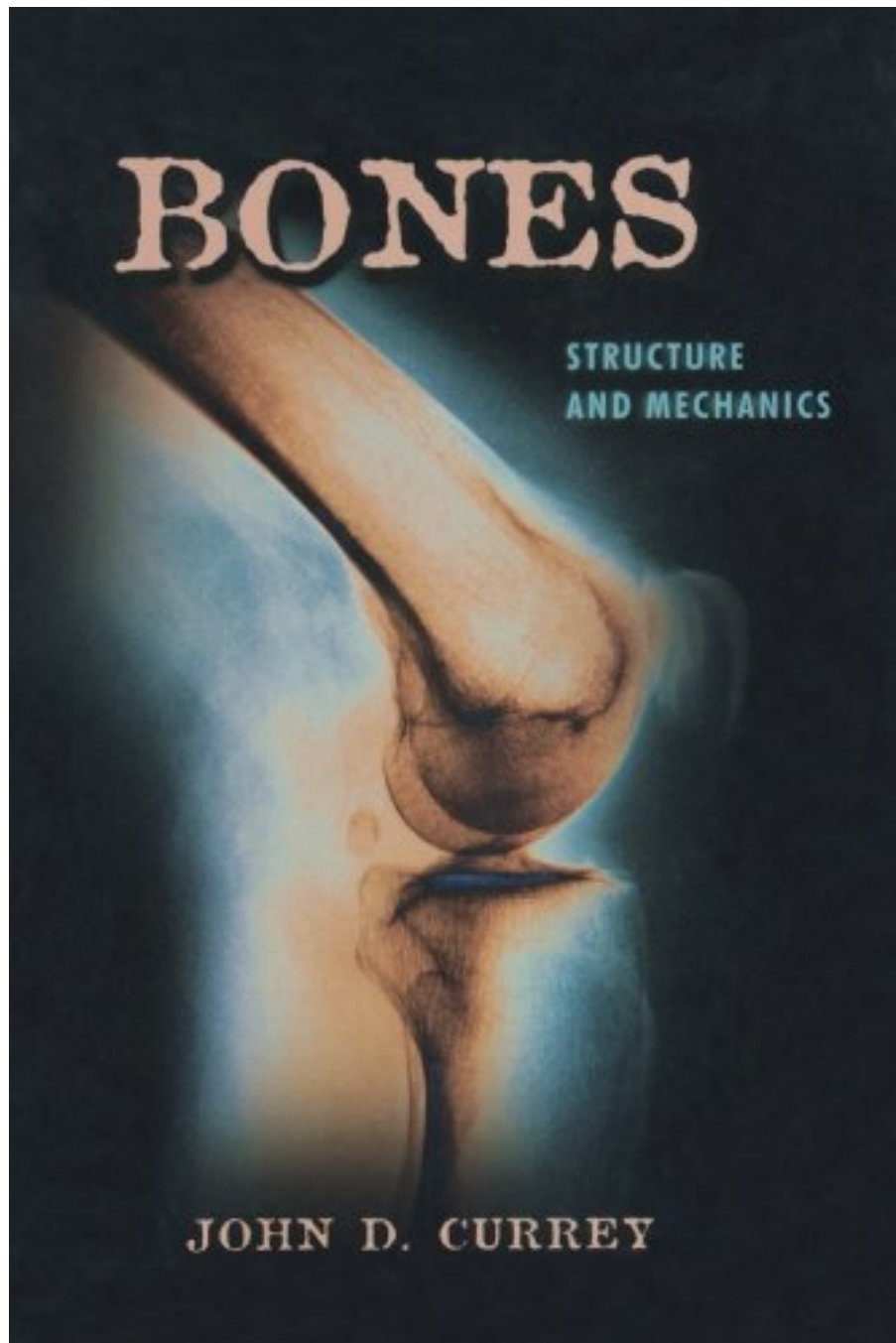


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"Currey's book admirably accomplishes the goal of making the vast field of research into bone mechanics and adaptations accessible to serious investigators in other disciplines. . . . It conveys the contagious enthusiasm of a mentor guiding his reader into the heart of his specialty."--Mary W. Marzke, *American Journal of Human Biology*

"A remarkable summary of bone structure and mechanics, full of interesting insights and creative thoughts to spark dozens of dissertations. I am glad to have it on my shelf."--R. Bruce Martin, *Journal of Biomechanics*

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This is a comprehensive and accessible overview of what is known about the structure and mechanics of bone, bones, and teeth. In it, John Currey incorporates critical new concepts and findings from the two decades of research since the publication of his highly regarded *The Mechanical Adaptations of Bones*. Crucially, Currey shows how bone structure and bone's mechanical properties are intimately bound up with each other and how the mechanical properties of the material interact with the structure of whole bones to produce an adapted structure.

For bone tissue, the book discusses stiffness, strength, viscoelasticity, fatigue, and fracture mechanics properties. For whole bones, subjects dealt with include buckling, the optimum hollowness of long bones, impact fracture, and properties of cancellous bone. The effects of mineralization on stiffness and toughness and the role of microcracking in the fracture process receive particular attention. As a zoologist, Currey views bone and bones as solutions to the design problems that vertebrates have faced during their evolution and throughout the book considers what bones have been adapted to do. He covers the full range of bones and bony tissues, as well as dentin and enamel, and uses both human and non-human examples.

Copiously illustrated, engagingly written, and assuming little in the way of prior knowledge or mathematical background, *Bones* is both an ideal introduction to the field and also a reference sure to be frequently consulted by practicing researchers.

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awesome read

By Kimberly

I borrowed this book from a library and loved and used it so much I bought my own copy. My thesis research is about fossil bone histology and this book does an incredible job of explaining bone histology, adaptations and mechanics. It is clearly written and I was able to take what I learned and apply it to fossil bones, even though that's not what the book is written about at all. I intended to just read the pieces of chapters I needed to understand for my research, but ended up sitting down and reading for hours. This book fascinated me!

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Very accurate title.

I bought this book for a project where I needed to quickly get an understanding of bone growth and mechanics. It's well written and well organized.

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