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This text adopts an approach based upon a general criterion for equilibrium (developed directly from the laws of thermodynamics) which yields a general strategy for obtaining conditions for equilibrium. This strategy is then applied to a collection of systems of increasing complexity and sophistication to derive in each case the conditions for equilibrium - working equations for solving practical problems in thermodynamics are shown to be restatements of these equilibrium conditions. The presentation applies to all classes of materials - including applications to ceramics, metals, polymers and electronic materials. The book has been specifically designed for students on a first course in thermodynamics on a materials science or related degree. However, it could also be used on chemistry, physics and chemical engineering courses.

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- 576 pages

Most helpful customer reviews

7 of 7 people found the following review helpful.

Typos galore

By SteveB

While this book does have a lot of advance topics in thermodynamics relating to material science it is teeming with little errors. The course I used this for started with Kittel's Thermal Physics and switched to DeHoff when we started doing mixtures. The notation is complex (perhaps necessarily). This would be OK except for the fact that Dehoff often makes small mistakes going from one line to the next. These typos will often lead to important equations that are wrong. If you are diligent, you can often spot the errors between lines in a derivation and correct them, but beware--these are so prevalent that I've seen as many as four on one page. Once you've proof-read and edited your book it should make a good reference and you will likely know the material pretty well from scrutinizing every derivation. The content here is good it just should have been edited better.

5 of 5 people found the following review helpful.

best way to learn thermo

By Y. Lee

This is in reference to the 1st edition.

What a great book.

This is the way thermo should be taught!! Don't you hate how thermo is boring and doesn't make any sense? I took a thermo class as an undergrad using a different textbook, and it didn't make any sense. I was constantly lost, trying to catch up by learning things backwards. Most thermo books try to teach you thermo by either one of two horrible methods:

1. reverse-engineer the phase diagram, or some other example.
2. memorize the equations and apply them.

Instead, this book walks you through the derivation of the equations that people use in thermo. It even spells out the mathematics you need to work through the concepts. You don't have to memorize anything. The gradual buildup of knowledge and principles, as ordered in this book, is the only way people like me can learn thermodynamics. I used this textbook in grad school and thermodynamics finally made sense.

YOU MUST endure through the first few chapters before you begin to appreciate the book. If you stop midway, it will be a total waste of your time.

My only grip is that there were numerous typos in the 1st edition, and each reprint had different typos in different places. My version had a typo in one of the state functions which really messed me up. I hope the 2nd edition does not have any of those problems.

Since it is primarily focused on teaching you thermodynamics, I don't think it is very useful as a "quick" reference material. In other words, it teaches you how to fish, but doesn't give you the fish. If you want a reference, I believe there are books with more depth and breadth out there.

I don't think it is worth buying unless you intend to sit down and read through the first ten chapters. The latter chapters are all optional and add some breadth. But really, you are not going to buy this book for its treatment of electrochemistry.

4 of 4 people found the following review helpful.

Good methodology, chock full of errors

By MtnMan1963

I like the way thermo is put together, piece by piece, adding complication in a straightforward fashion. It's easy to teach out of this book. However, the other reviews are correct - the number of errors in the equations and graphs (I'm up to 76 after 6 times through the book) is unbelievable. I've passed them along to DeHoff with no reply.

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