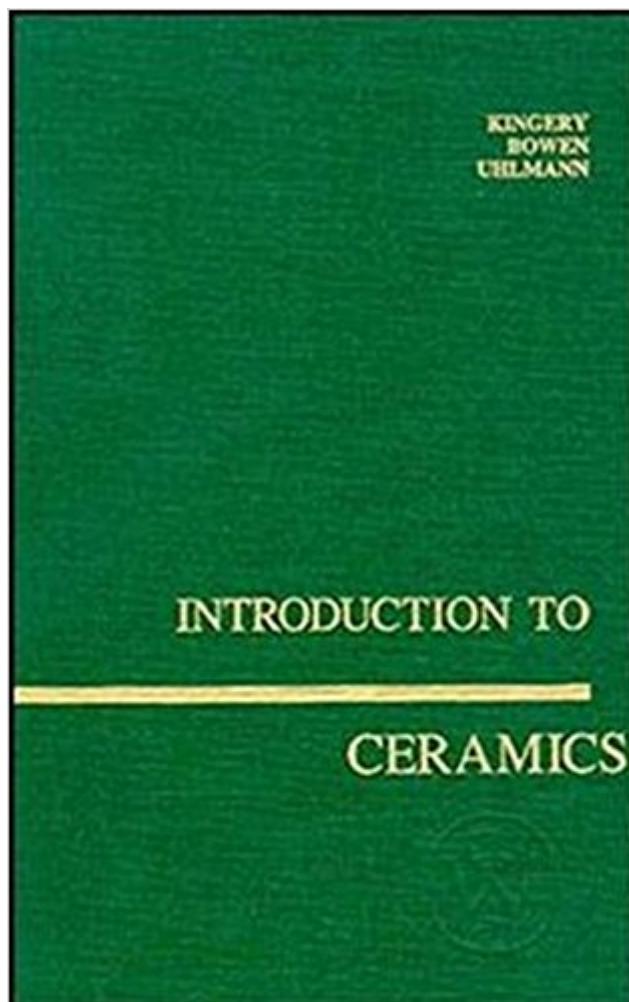


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# Introduction To Ceramics, 2nd Edition



## **Synopsis**

This 2nd edition of Introduction to Ceramics has been printed 15 years after the 1st edition. Many advances have been made in understanding and controlling and developing new ceramic processes and products. this text has a considerable amount of new material and the product modification.

## **Book Information**

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## **Customer Reviews**

This is not a book, but ceramic bible! I can not live without this book. Otherwise, I will not complete my PhD. Thanks to this book, I find PhD is much harder than I thought it should be.

Don't let the "introduction".fool you. When you find Schroedinger's wave equation on page 10, you know this us a serious book. I am an engineer, but have no background in ceramics. This book is perfect to get me into the game.

A Classic...a reference book for any material scientist

Introductions to ceramics by Kingery is the bible for ceramists. This book is more focused on the ceramic basic science and, apparently, it is a poor book for applications. However, Kyngery et al. teaches us the basic science we all need to know to be able to work on ceramics. It is difficult to work on ceramics if the basic knowledge taught by this book is unknown.

perfect condition, fast delivery, good price. couldn't be better. This guy sent the book by overnight delivery. Thank you so much for your excellent service.

First off, you can get a better price with abebooks.com or other used sellers. It is a must-read for any engineer or scientist planning to have a dedicated career in ceramics. Plus, you will find most chapters quite useful when planning to take a materials-related exam or doctoral qualifer. I was lucky enough to study with Dr. Kingery's Ph.D student. Enough said, google "W.D. Kingery" and you will figure the importance of this book in the history of modern ceramics. Dr. Kingery passed away around 2000s, and the book with not be updated with hot topics (transparent ceramics, electronic devices, new theories in glass network or sintering of ceramics, and etc.) in current ceramic societies. However, these aspects can be complemented by articles in ACerS or ECerS.

This books covers all the essential items, plus it does so in great detail. Lots of great in-depth reviews on materials and systems, plus simple and straightforward examples on sometimes very complicated subjects. A great example is the dielectric properties section, which covers in 2 simple graphs the differences in dielectric constant between sapphire and soda lime glass at different frequencies and temperatures. It is a crystal clear explanation that gives a clue towards looking deeper where needed into the subject, but gets the point across quickly in a page or two. Sections like that are rampant in the book. Great resource and a constant guide.

The book is a comprehensive encyclopaedia of ceramics. However, the authors repeatedly fumble the physics (and seem blind to the fact the units are off in many cases). Being a physics student, I'm picky about electricity and magnetism, and how the concepts are developed. This isn't too much of a problem for Kingery et al because they flat out fail to develop the material to an acceptable level (I don't think that was one of their goals with the book). But it did bother me that the theory of magnetic properties of materials is developed \*by analogy\* to the theory of electrical properties. Sure - there is a parallel, and many of the equations have identical forms. But magnetism and electricity are distinct concepts, and nothing in Physics would allow you to guess their theories to parallel each other so well until \*after\* you've learned their theory the appropriate way. In addition the later sections on ceramic properties (thermal, electrical, magnetic, optical) read like an index of equations without the insight that comes from a proper development of where they come. So be sure to have a good text on E&M available. I was very pleased with the breadth of the text, but disappointed with the development theory at certain points in the book. It is not a \*bad\* book, but I

can't say it's a book I have great confidence in as a reference.

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