



Principles of Ceramics Processing, 2nd Edition

By James S. Reed

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This popular reference offers a clear understanding of the scientific principles of ceramics processing required for the development and production of new advanced ceramics. In the latest edition significant new material has been added to the chapters on raw materials, liquids and surfactants, vapor deposition, printing, coating processes and firing. Contains several new features including processing flow diagrams, tables summarizing important points, 100+ new figures as well as descriptions of defects and their causes which are either itemized in the text or summarized in a table. Also includes numerous problems and examples following each chapter.

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Editorial Review

From the Publisher

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From the Back Cover

At a time when the importance of ceramics in modern products has advanced rapidly, James S. Reed's *Principles of Ceramics Processing* fulfills the need for a clearly written, comprehensive introduction to the field. This single text gives materials science engineers and students in ceramics engineering an understanding of the scientific principles and technology of ceramics processing as it applies to the development and production of new advanced ceramics. Professor Reed's coherent approach joins the presentation of scientific principles with a discussion of the processing technology and unit operations. His thorough coverage includes materials and their characterization; processing additives; rheology; forming, drying, sintering, coating and surface finishing; and the causes and prevention of defects in products. This new edition reflects recent developments in the field and provides additional material on nitride, carbide, and electronic ceramics. A wealth of data and detailed charts of information relevant to the manufacturing process enhance its value as a ready reference to practicing engineers. To facilitate learning, the author has included examples with solutions in each chapter, tables summarizing potential defects and their causes, and processing flow diagrams for different processes. A total of over 500 illustrations in the form of graphs, diagrams, and micrographs support the text.

About the Author

JAMES S. REED is Professor of Ceramic Engineering at the New York State College of Ceramics at Alfred University. Dr. Reed has been the recipient of many awards for research and teaching including, most recently, the Outstanding Educator in Ceramic Engineering Award of the American Ceramic Society. Among his numerous publications is *Introduction to the Principles of Ceramic Processing*, First Edition, also published by Wiley.

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