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This is the first text to cover all aspects of solution processed functional oxide thin-

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films. Chemical Solution Deposition (CSD) comprises all solution based thin-film deposition techniques, which involve chemical reactions of precursors during the formation of the oxide films, i. e. sol-gel type routes, metallo-organic decomposition routes, hybrid routes, etc. While the development of sol-gel type processes for optical coatings on glass by silicon dioxide and titanium dioxide dates from the mid-20th century, the first CSD derived electronic oxide thin films, such as lead zirconate titanate, were prepared in the 1980's. Since then CSD has emerged as a highly flexible and cost-

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effective technique for the fabrication of a very wide variety of functional oxide thin films. Application areas include, for example, integrated dielectric capacitors, ferroelectric random access memories, pyroelectric infrared detectors, piezoelectric micro-electromechanical systems, antireflective coatings, optical filters, conducting-, transparent conducting-, and superconducting layers, luminescent coatings, gas sensors, thin film solid-oxide fuel cells, and photoelectrocatalytic solar cells. In the appendix detailed "cooking recipes" for

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A modern introduction to the physical principles of electronic ceramic materials. Describes theory in structural terms via the language of quantum mechanics and statistical mechanics, bridging the gap between purely theoretical solid-state texts and strictly applied materials science texts. Most of the equations employed are derived from first principles. Each chapter describes the relevant properties of the materials covered, presents applications of the theory, and includes a graded set of problems (some to be

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material learned so that its significance is continuously reinforced. The nature of defects which intrudes upon the perfect geometry of ideal crystal structures, migration of matter and charge, chemical and phase equilibria are among the subjects discussed.

There were two main driving forces in my decision for preparing a question- answer book covering all the courses given by myself during the past 10 years in my academic career: first argument is that there exists a good amount of original questions in the

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find same questions 'unconsciously' learnt by heart in the exams. In order to increase working efficiency and consequently reach to the maximum performance in exams will only be possible if students do not miss any lectures given by staff; in addition to be an active participant during the lecture and daily work on the given homeproblems are the basic requirements for a full success. In concluding, this book will give a chance to the well prepared students to make a quick rehearsal before the exams for obtaining best results after the exams.

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This comprehensive, student friendly text is intended for use in an introductory course in physical metallurgy and is designed for all engineering students at the junior or senior level. The approach is largely theoretical but all aspects of physical metallurgy and behavior of metals and alloys are covered. The treatment used in this textbook is in harmony with a more fundamental approach to engineering education. An extensive revision has been done to insure that the content remains the standard for metallurgy engineering courses worldwide. Important Notice: Media content referenced within the

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The present book presents the results of a systematic investigation of the dielectric, ferroelectric and piezoelectric properties of this type of lead-free solid solution ceramics

Keywords: Piezoelectric Materials, Lead Toxicity, Lead-free Piezo-Ceramics, Perovskite Ceramics, Sensor Devices, Actuator Devices, Piezoelectric Devices, Ferroelectric Devices, Barium Titanate, Sodium Potassium Niobate, Sodium Bismuth Titanate, Electron Density Distribution, X-ray Diffraction,

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This revised Sixth Edition presents the basic fundamentals on a level appropriate for college students who have completed their freshmen calculus, chemistry, and physics courses. All subject matter is presented in a logical order, from the simple to the more complex. Each chapter builds on the content of previous ones. In order to expedite the learning process, the book provides: "Concept Check" questions to test conceptual understanding End-of-chapter questions and problems to develop understanding of concepts and problem-solving skills End-of-book Answers to Selected Problems to check

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accuracy of work End-of chapter summary  
tables containing key equations and equation  
symbols A glossary for easy reference

Development of the thin film and coating technologies (TFCT) made possible the technological revolution in electronics and through it the revolution in IT and communications in the end of the twentieth century. Now, TFCT penetrated in many sectors of human life and industry: biology and medicine; nuclear, fusion, and hydrogen energy; protection against corrosion and hydrogen embrittlement; jet engine; space

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materials science; and many others.

Currently, TFCT along with nanotechnologies is the most promising for the development of almost all industries. The 20 chapters of this book present the achievements of thin-film technology in many areas mentioned above but more than any other in medicine and biology and energy saving and energy efficiency.

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