1. Record Nr. UNINA9910141601203321

Autore	Defaÿ Emmanuel
Titolo	Ferroelectric dielectrics integrated on silicon [[electronic resource] /] / edited by Emmanuel Defay
Pubbl/distr/stampa	London, : ISTE Ltd. Hoboken, N.J., : John Wiley, 2011
ISBN	1-118-60275-7 1-118-60276-5 1-118-60280-3
Edizione	[1st edition]
Descrizione fisica	1 online resource (464 p.)
Collana	ISTE
Altri autori (Persone)	DefayEmmanuel
Disciplina	621.3815/2 621.38152
Soggetti	Ferroelectric thin films Silicon - Electric properties Electric batteries - Corrosion Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Adapted and updated from: Dielectriques ferroelectriques integres sur silicium, published in France by Hermes Science/Lavoisier, 2011.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Table of Contents; Preface; Chapter 1. The Thermodynamic Approach; 1.1. Background; 1.2. The functions of state; 1.3. Linear equations, piezoelectricity; 1.4. Nonlinear equations, electrostriction; 1.5. Thermodynamic modeling of the ferroelectric-paraelectricphase transition; 1.5.1. Assumption on the elastic Gibbs energy; 1.5.2. Second-order transition; 1.5.3. Effect of stress; 1.5.4. First-order transition; 1.6. Conclusion; 1.7. Bibliography; Chapter 2. Stress Effect on Thin Films; 2.1. Introduction; 2.2. Modeling the system under consideration 2.3. Temperature-misfit strain phase diagrams for monodomain films2. 3.1. Phase diagram construction from the Landau-Ginzburg-Devonshire theory; 2.3.2. Calculations limitations; 2.4. Domain stability map; 2.4.1. Presentation and description of the framework of study; 2.4.2. Main contributions to the total energy of a film; 2.4.3. Influence of thickness; 2.4.4. Macroscopic elastic energy for each type of

Sommario/riassunto

This book describes up-to-date technology applied to high-K materials for More Than Moore applications, i.e. microsystems applied to microelectronics core technologies.After detailing the basic thermodynamic theory applied to high-K dielectrics thin films including extrinsic effects, this book emphasizes the specificity of thin films. Deposition and patterning technologies are then presented. A whole chapter is dedicated to the major role played in the field by X-Ray Diffraction characterization, and other characterization techniques are also described such as Radio frequency characterizat

2. Record Nr. UNISALENTO991000963909707536

Autore	Shaw, Bernard
Titolo	Candida : with illustrations from the play as presented by Cornelia Otis Skinner / Bernard Shaw
Pubbl/distr/stampa	New York : Dodd, Mead and company, 1939
Descrizione fisica	70 p. ; 22 cm.
Altri autori (Persone)	Skinner, Cornelia Otis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia