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Titolo	Defects and diffusion studied using PAC spectroscopy / / edited by Herbert Jaeger, Matthew O. Zacate
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ISBN	3-03813-516-X
Descrizione fisica	1 online resource (185 p.)
Collana	Defect and diffusion forum, , 1012-0386 ; ; v. 311
Altri autori (Persone)	JaegerHerbert ZacateMatthew O
Disciplina	660.294
Soggetti	Solids - Defects Diffusion Angular correlations (Nuclear physics) Perturbation (Quantum dynamics) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Special topic volume with invited peer reviewed papers only."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Defects and Diffusion Studied Using PAC Spectroscopy; Preface; Table of Contents; 1. Review Articles; Perturbed Angular Correlation Spectroscopy - A Tool for the Study of Defects and Diffusion at the Atomic Scale; Impurities in Magnetic Materials Studied by PAC Spectroscopy; Impurity Centers in Oxides Investigated by - Perturbed Angular Correlation Spectroscopy and Ab Initio Calculations; Can PAC Measurements be Used to Investigate Defects in Nano-Structures?; 2. Current Research Articles TiO2 Nanomaterials Studied by 44Ti(EC)44Sc Time Differential Perturbed Angular Correlations: Volume and Surface PropertiesComparison of Jump Frequencies of 111In/Cd Tracer Atoms in Sn3R and In3R Phases Having the L12 Structure (R = Rare-Earth); Implanted Impurities in Wide Band Gap Semiconductors; Keywords Index; Authors Index
Sommario/riassunto	The motivation for this special-topic volume was two-fold. Among the various techniques for probing material properties at the atomic scale, PAC is a somewhat hidden gem. This is partly because PAC requires the

	use of radioisotopes; thus rendering it almost useless as a non-destructive characterization method. Moreover, there are relatively few PAC isotopes available; so it is not always possible to apply PAC to the most technologically pressing problems. Thus, PAC studies of materials are often more fundamental, and less applied, in nature. One of the goals of this volume was to raise the pro

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ISBN	1-283-37240-1 9786613372406 0-470-74483-9 0-470-74482-0
Descrizione fisica	1 online resource (293 p.)
Collana	Wiley-SID Series in Display Technology
Disciplina	621.3815/422 621.3815422
Soggetti	Liquid crystal displays - Equipment and supplies Electric lamps Electronic books.
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	LCD Backlights; Contents; Series Editor's Foreword; About the Editors; List of Contributors; Preface; Part One: Backlights by Use; 1: Technical Trends and Requirements/Specifications for LCD TV Backlights; 1.1 Introduction; 1.2 Structure of LCD TV Backlights; 1.3 Trends in LCD TV Backlights; 1.4 Requirements/Specifications for LCD TV Backlights; 1.5 Conclusions; References; 2: Improvement of Moving Picture Quality by Means of Backlight Control; 2.1 Introduction; 2.2 Blur of Moving Images

on LC Displays; 2.3 Methods of Reducing Motion Blur; 2.4 Backlight Blinking; 2.5 Conclusions; References
3: Multiple Primary Color Backlights3.1 Present Status; 3.2 Technological Impacts; 3.3 Operation of Prototype, Six-primary-color Monitor; 3.4 Details of a Six-primary-color Backlight Unit; 3.5 Signal Processing of Transforming from Three Primaries to Six Primaries; 3.6 Color Gamut of the Prototype Monitor; 3.7 Other Techniques for Multiple Primary Color LC-TVs; 3.8 Remaining Issues; References; 4: Reduction of Backlight Power Consumption of LCD-TVs; 4.1 Introduction; 4.2 Display Method of LCD and Power Reduction; 4.3 Principle of the Adaptive Dimming Technique
4.4 Adaptive Dimming Control and Power Consumption4.5 Other Features of the Adaptive Dimming Technique; References; 5: Notebook PC/Monitor Backlights; 5.1 Introduction; 5.2 Characteristics Required for Backlights; 5.3 Optical Systems for Backlights; 5.4 Light Sources for Backlights; 5.5 Optical Components of Backlights; References; 6: Backlights for Handheld Data Terminals; 6.1 Introduction; 6.2 Basic Structure and Principles of LED Backlights; 6.3 Constituents of LED BLUs; 6.4 Various LED Backlight Configurations; 6.5 Conclusions; References; Part Two: Light Source Devices
7: CCFL Backlights7.1 Introduction; 7.2 Structure and Operating Principle of CCFLs; 7.3 Basic Characteristics of CCFLs; 7.4 Future Trends in CCFLs; 7.5 Conclusions; 8: CCFL Inverters; 8.1 Introduction; 8.2 Various Drive Schemes of CCFL Inverters; 8.3 Equivalent Circuit of CCFLs; 8.4 Inverter Circuits; 8.5 Driving of CCFLs with Inverters; 8.6 Lamp Current Balancers for Driving Multiple Lamps; 8.7 Conclusions; References; 9: HCFL Backlights; 9.1 HCFL Light Source as a Member of the Fluorescent Lamp Family; 9.2 Introduction of the Hot Cathode in Fluorescent Lamps; 9.3 Driving the HCFL
9.4 Cathode Life Properties of HCFL9.5 Lumen Maintenance and Color Point Shift during Life; 9.6 Designing a Backlight with HCFL; 9.7 The Scanning Feature, Cost-effectively Enabled by HCFL; 9.8 The Dimming Feature; 9.9 Conclusions; References; 10: EEFL Backlights; 10.1 Introduction; 10.2 Basic Characteristics of EEFLs; 10.3 Advantages and Disadvantages of EEFL Backlights; 10.4 Technological Trends of EEFL Backlights; 10.5 Development Targets; 10.6 Conclusions; References; 11: FFL Backlights; 11.1 Introduction; 11.2 The History of FFL Development; 11.3 Characteristics of FFLs
11.4 Features of the FFL

Sommario/riassunto

Research and development on liquid crystal display (LCD) backlight technologies are becoming increasingly important due to the fast growth of the LCD business. Backlight technologies contribute to functional improvements of LCDs in terms of wide colour reproduction, uniformity improvements of luminance and colour temperature, high luminance, long life, less power consumption, thinner backlight unit, as well as cost. As LCD panel technology progresses, the lighting technology that provides the illumination for the panel must similarly evolve. LCD Backlights is written by a global panel