

1. Record Nr.	UNINA9911018821803321
Titolo	Luminescence : from theory to applications // edited by Cees Ronda
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2008
ISBN	9786611311803 9781281311801 1281311804 9783527621064 3527621067 9783527621057 3527621059
Descrizione fisica	1 online resource (278 p.)
Classificazione	35.25 33.77
Altri autori (Persone)	RondaC. R
Disciplina	535.35
Soggetti	Luminescence Phosphors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Luminescence; Foreword; Contents; Preface; List of Contributors; 1 Emission and Excitation Mechanisms of Phosphors; 1.1 Introduction; 1.2 General Considerations - Fluorescent Lamps; 1.3 General Considerations - Cathode Ray Tubes; 1.4 Luminescence Mechanisms; 1.4.1 Center Luminescence; 1.4.2 Charge Transfer Luminescence; 1.4.3 Donor Acceptor Pair Luminescence; 1.4.4 Long Afterglow Phosphors; 1.5 Excitation Mechanisms; 1.5.1 Optical Excitation of Luminescence and Energy Transfer; 1.6 Energy Transfer Mechanisms Between Optical Centers; 1.6.1 Mechanisms Underlying Energy Transfer 1.6.2 Energy Transfer Governed by Electrostatic Interaction1.6.3 Energy Transfer by Higher-order Coulomb Interaction; 1.6.4 Energy Transfer Governed by Exchange Interactions; 1.6.5 Cross-relaxation and Energy Transfer; 1.6.6 Practical Implications; 1.7 Excitation with High-energy Particles; 1.8 Electroluminescence (EL); 1.8.1 High-voltage Electroluminescence; 1.8.2 Low-voltage Electroluminescence; 1.9

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## Sommario/riassunto

In this, the only up-to-date book on this key technology, the number-one expert in the field perfectly blends academic knowledge and industrial applications. Adopting a didactical approach, Professor Ronda discusses all the underlying principles, such that both researchers as well as beginners in the field will profit from this book. The focus is on the inorganic side and the phenomena of luminescence behind the manifold applications illustrated here, including displays, LEDs, lamps, and medical applications. Valuable reading for chemists and electrochemists, as well as materials scientist