**DESCRIPTION**

Luminescence, for example, as fluorescence, bioluminescence, and phosphorescence, can result from chemical changes, electrical energy, subatomic motions, reactions in crystals, or stimulation of an atomic system. This subject continues to have a major technological role for humankind in the form of applications such as organic and inorganic light emitters for flat panel and flexible displays such as plasma displays, LCD displays, and OLED displays.

*Luminescent Materials and Applications* describes a wide range of materials and applications that are of current interest including organic light emitting materials and devices, inorganic light emitting diode materials and devices, down-conversion materials, nanomaterials, and powder and thin-film electroluminescent phosphor materials and devices. In addition, both the physics and the materials aspects of the field of solid-state luminescence are presented. Thus, the book may be used as a reference to gain an understanding of various types and mechanisms of luminescence and of the implementation of luminescence into practical devices.

The book is aimed at postgraduate students (physicists, electrical engineers, chemical engineers, materials scientists, and engineers) and researchers in industry, for example, at lighting and display companies and academia involved in studying conduction in solids and electronic materials. It will also provide an excellent starting point for all scientists interested in luminescent materials. Finally it is hoped that this book will not only educate, but also stimulate further progress in this rapidly evolving field.
ABOUT THE AUTHOR

Adrian Kitai is Professor in the Department of Materials Science and Engineering / Engineering Physics at McMaster University (Canada). He was educated at McMaster University and received his PhD in Electrical Engineering from Cornell University (USA). His research interests include fundamental luminescent materials, new luminescent devices, new avalanche injection devices and optical fiber liquid crystal display technology. Professor Kitai is a world leader in electroluminescent (EL) science and technology. With over 20 years of experience in the field, he holds several patents relating to EL technology and he has been the Chapter President of the Society for Information Display in Canada. Many of the leading EL researchers in Canada, have been taught and trained by Professor Kitai.

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