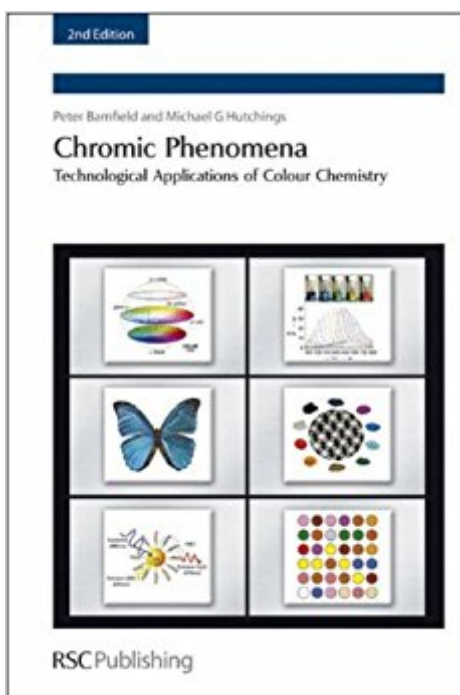


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Chromic Phenomena: Technological Applications Of Colour Chemistry



Synopsis

Chromic phenomena, or those produced by materials which exhibit colour in response to a chemical or physical stimulus, have increasingly been at the heart of 'high-tec' developments in a variety of fields in the last decade. Many of the newer technologies, which are at the cutting edge of research, are multi-disciplinary, involving researchers from areas as diverse as physics, biology, materials science and electronic engineering. Chromic Phenomena covers five main areas: Colour change materials, such as photochromic, thermochromic and electrochromic materials; Materials which absorb and reflect light - the classical dyes and pigments; Luminescent phenomena, including phosphorescence, fluorescence and electroluminescence; Materials which absorb light and transfer energy, eg photosensitisers, infra-red absorbers and laser-addressable compounds; Phenomena involving the manipulation of light by chemicals, such as liquid crystals, lustre pigments, optoelectronics and photonics Providing an entry point both for new researchers and for established ones, this book, with its emphasis on the technological applications of these chromic phenomena, develops and investigates new applications for colour chemistry. It will be of interest to industrialists and professionals in the biological, medicinal, electronics/telecommunications and colorant industries, as well as academics in these fields.

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""... should prove to be an attractive source of information to a range of readers interested in a modern treatment of color chemistry, at either an introductory or an advanced level ...""... a readable, scientific text book underlining the state of the art of colour science.""... straightforward

and easy to read ... a mine of information on the materials that interact effectively with light and on the modern ways of applying such materials. warmly recommended as an addition to a library of applied chemistry or colour science. a readable, scientific book underlining the state of the art of colour science. a wealth of useful and fascinating information presented in an accessible and readily understandable fashion.

Chromic phenomena, or those produced by materials which exhibit colour in response to a chemical or physical stimulus, have increasingly been at the heart of 'high-tec' developments in a variety of fields in the last decade. Many of the newer technologies, which are at the cutting edge of research, are multi-disciplinary, involving researchers from areas as diverse as physics, biology, materials science and electronic engineering. Chromic Phenomena covers five main areas: Colour change materials, such as photochromic, thermochromic and electrochromic materials; Materials which absorb and reflect light - the classical dyes and pigments; Luminescent phenomena, including phosphorescence, fluorescence and electroluminescence; Materials which absorb light and transfer energy, eg photosensitisers, infra-red absorbers and laser-addressable compounds; Phenomena involving the manipulation of light by chemicals, such as liquid crystals, lustre pigments, optoelectronics and photonics Providing an entry point both for new researchers and for established ones, this book, with its emphasis on the technological applications of these chromic phenomena, develops and investigates new applications for colour chemistry. It will be of interest to industrialists and professionals in the biological, medicinal, electronics/telecommunications and colorant industries, as well as academics in these fields.

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