1. Record Nr. UNINA9910454423703321

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Titolo	A guide to the phenomenology of religion : key figures, formative influences and subsequent debates / / James L. Cox
Pubbl/distr/stampa	London ; ; New York : , : T & T Clark International, , [2006] ©2006
ISBN	1-4411-3712-2 1-282-01390-4 9786612013904 1-4411-8393-0
Descrizione fisica	1 online resource (276 p.)
Disciplina	200.72
Soggetti	Phenomenological theology Religion - Philosophy Phenomenology Electronic books.
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 (pages 244-266) and index.
Nota di contenuto	Contents; Acknowledgements; Introduction: Defining the Scope: Phenomenology within the Academic Study of Religions; Chapter 1 Understanding Phenomena: Key Ideas in the Philosophy of Edmund Husserl; Chapter 2 The Universal Experience of Religion in Ritschlian Theology; Chapter 3 Ideal Types and the Social Sciences: The Contributions of Troeltsch, Weber and Jung to Phenomenological Thinking; Chapter 4 The Decisive Role of Dutch Phenomenology in the New Science of Religion; Chapter 5 From Africa to Lancaster: The British School of Phenomenology Chapter 6 Interpreting the Sacred: North American Phenomenology at Chicago and in the Thought of W. C. SmithChapter 7 Phenomenology at the Crossroads: Subsequent Debates in the Academic Study of Religions; Bibliography; Index
Sommario/riassunto	The phenomenological method in the study of religions has provided the linchpin supporting the argument that Religious Studies constitutes an academic discipline in its own right and thus that it is irreducible

		either to theology or to the social sciences. This book examines the figures whom the author regards as having been most influential in creating a phenomenology of religion. Background factors drawn from philosophy, theology and the social sciences are traced before examining the thinking of scholars within the Dutch, British and North American 'schools' of religious phenomenology.
2.	Record Nr.	UNINA9911019534003321
	Autore	Tilley R. J. D
	Titolo	Colour and the optical properties of materials : an exploration of the relationship between light, the optical properties of materials and colour / / Richard J.D. Tilley
	Pubbl/distr/stampa	Chichester, West Sussex, U.K., : Wiley, 2011
	ISBN	9786613677839 9781280751004 1280751002 9780470974773 047097477X 9780470974766 0470974761
	Edizione	[2nd ed.]
	Descrizione fisica	1 online resource (472 p.)
	Disciplina	535.6
	Soggetti	Light Optics Color
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Preface. 1 Light and Colour. 1.1 Colour and light. 1.2 Colour and energy. 1.3 Light waves. 1.4 Interference. 1.5 Light waves and colour. 1.6 Black body radiation and incandescence. 1.7 The colour of incandescent objects. 1.8 Photons. 1.9 Lamps and lasers. 1.10 Vision. 1.11 Colour perception. 1.12 Additive coloration. 1.13 The interaction of light with a material. 1.14 Subtractive coloration. 1.15 Electronic

"paper". 1.16 Appearance and transparency. Appendix 1.1 Definitions, units and conversion factors. Further reading. 2 Colours due to Refraction and Dispersion. 2.1 Refraction and the refractive index of a material. 2.2 Total internal reflection. 2.3 Refractive index and polarisability. 2.4 Refractive index and density. 2.5 Invisible animals, GRINS and mirages. 2.6 Dispersion and colours produced by dispersion. 2.7 Rainbows and halos. 2.8 Halos. 2.9 Fibre optics. 2.10 Negative refractive index materials. Further reading. 3 The Production of Colour by Reflection. 3.1 Reflection from a single surface. 3.2 Interference at a single thin film in air. 3.3 The colour of a single thin film in air. 3.4 The reflectivity of a single thin film in air. 3.5 The colour of a single thin film on a substrate. 3.6 The reflectivity of a single thin film on a substrate. 3.7 Low-reflection and high-reflection films. 3.8 Multiple thin films. 3.9 Fibre Bragg Gratings. 3.10 "Smart" windows. 3.11 Photonic engineering in nature. 3.12 Further reading. 3.13 Problems and exercises. Appendix 3.1 The colour of a thin film in white light. Further Reading. 4 Polarisation and crystals. 4.1 Polarisation of light. 4.2 Polarisation by reflection. 4.3 Polars. 4.4 Crystal symmetry and refractive index. 4.5 Double refraction: calcite as an example. 4.6 The description of double refraction effects. 4.7 Colour produced by polarisation and birefringence. 4.8 Pleochroism and dichroism. 4.9 Nonlinear effects. 4.10 Frequency matching and phase matching. 4.11 More on second harmonic generation. 4.12 Optical activity. 4.13 Liquid crystals. Further reading. 5 Colour due to Scattering. 5.1 Scattering and extinction. 5.2 Tyndall blue and Rayleigh scattering. 5.3 Blue skies, red sunsets. 5.4 Scattering and polarisation. 5.5 Mie scattering. 5.6 Blue eyes and some blue feathers. 5.7 Paints, sunscreens and related matters. 5.8 Multiple scattering. 5.9 Gold sols and ruby glass. 5.10 The Lycurgus Cup. Further reading. 6 Colour due to Diffraction. 6.1 Diffraction and colour production by a slit. 6.2 Diffraction and colour production by a rectangular aperture. 6.3 Diffraction and colour production by a circular aperture. 6.4 The diffraction limit of optical instruments. 6.5 Colour production by linear diffraction gratings. 6.6 Two-dimensional gratings. 6.7 Estimation of the wavelength of light by diffraction. 6.8 Diffraction by crystals and crystal-like structures. 6.9 Disordered diffraction gratings. 6.10 Diffraction by sub-wavelength structures. 6.11 Holograms. Further reading. 7 Colour from Atoms and Ions. 7.1 The spectra of atoms and ions. 7.2 Terms and levels. 7.3 Atomic spectra and chemical analysis. 7.4 Fraunhofer lines and stellar spectra. 7.5 Neon signs and early plasma displays. 7.6 The helium-neon laser. 7.7 Sodium and mercury street lights. 7.8 Transition metals and crystal field colours. 7.9 Crystal field splitting, energy levels and terms. 7.10 The colour of ruby. 7.11 Transition-metal-ion lasers. 7.12 Emerald, alexandrite and crystal field strength. 7.13 Crystal field colours in minerals and gemstones. 7.14 Colour as a structural probe. 7.15 Colours from lanthanide ions. 7.16 The neodymium (Nd^{3+}) solid state laser: a four level laser. 7.17 Amplification of optical fibre signals. 7.18 Transition metal and lanthanide pigments. 7.19 Spectral hole formation. 7.20 Further reading. 7.21 Problems and exercises. Appendix 7.1 Electron configurations. Appendix 7.2 Terms and levels. Further Reading. 8 Colour from Molecules. 8.1 The energy levels of molecules. 8.2 The colours arising in some simple inorganic molecules. 8.3 The colour of water. 8.4 Chromophores, chromogens and auxochromes. 8.5 Conjugated bonds in organic molecules: the carotenoids. 8.6 Conjugated bonds circling metal atoms: porphyrins and phthalocyanines. 8.7 Naturally occurring colorants: flavonoid pigments. 8.8 Autumn leaves. 8.9 Some dyes and pigments. 8.10 Charge transfer colours. 8.11 Colour change sensors. 8.12 Dye lasers.

8.13 Photochromic organic molecules. Further reading. 9 Luminescence. 9.1 Luminescence. 9.2 Activators, sensitizers and fluorophores. 9.3 Atomic processes in photoluminescence. 9.4 Fluorescent lamps. 9.5 Plasma displays. 9.6 Cathodoluminescence and cathode ray tubes (CRTs). 9.7 Field emission displays (FEDs). 9.8 Phosphor electroluminescent displays. 9.9 Upconversion. 9.10 Quantum cutting. 9.11 Fluorescent molecules. 9.12 Fluorescent nanoparticles. 9.13 Fluorescent markers and sensors. 9.14 Chemiluminescence and Bioluminescence. 9.15 Triboluminescence. 9.16 Scintillators. Further reading. 10 Colour in Metals, Semiconductors and Insulators. 10.1 The colours of insulators. 10.2 Excitons. 10.3 Impurity colours in insulators. 10.4 Impurity colours in diamond. 10.5 Colour centres. 10.6 The colours of semiconductors. 10.7 The colours of semiconductor alloys. 10.8 Light emitting diodes (LEDs). 10.9 Semiconductor diode lasers. 10.10 Semiconductor nanostructures. 10.11 Organic semiconductors and electroluminescence. 10.12 Electrochromic films. 10.13 Photovoltaics. 10.14 Digital photography. 10.15 The colours of metals. 10.16 The colours of metal nanoparticles. 10.17 Extraordinary light transmission and plasmonic crystals. Further Reading. Index.

Sommario/riassunto

'Colour and the Optical Properties of Materials' carefully introduces the science behind the subject, along with many modern and cutting-edge applications, chosen to appeal to today's students.