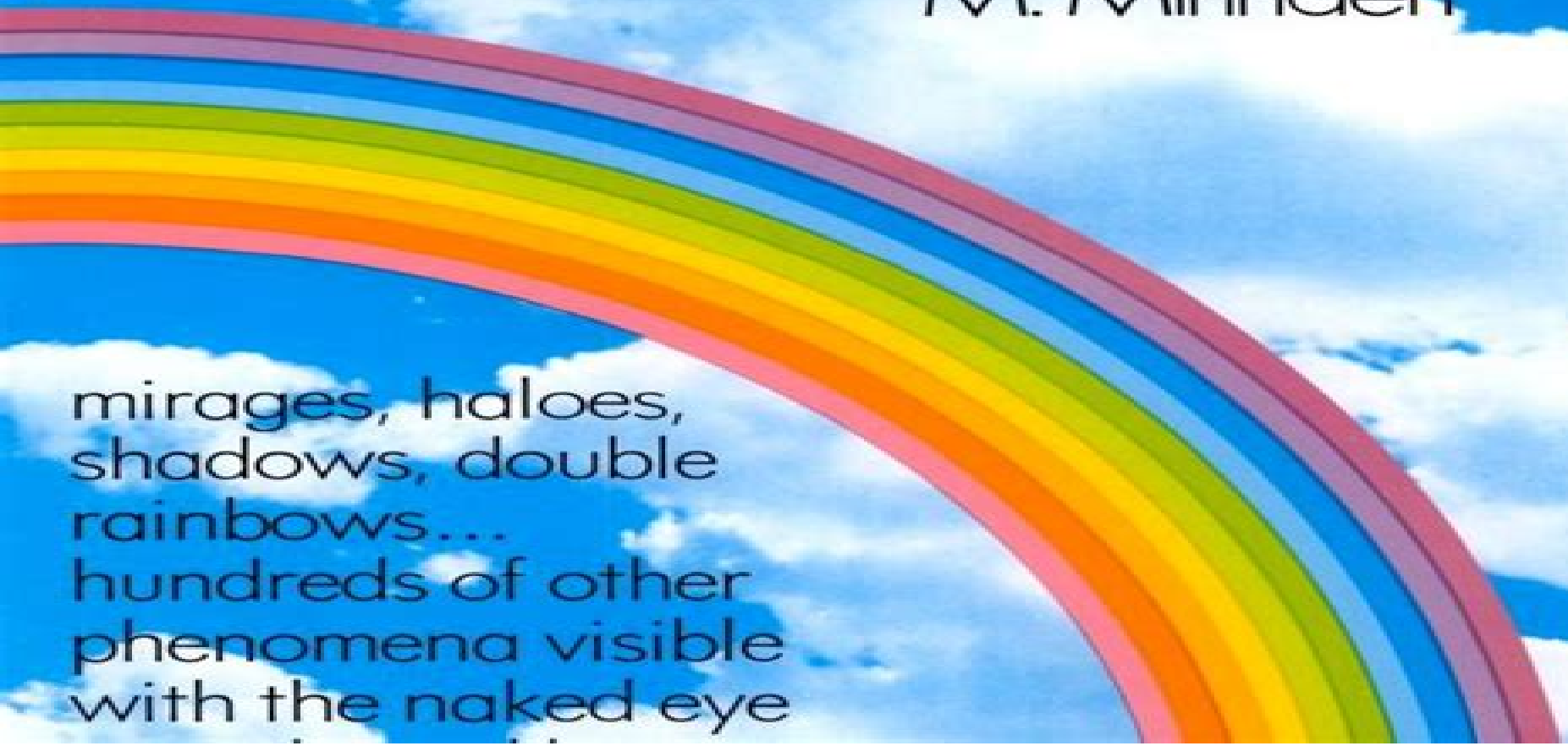


The nature of **LIGHT & COLOUR** in the open air

M. Minnaert

mirages, haloes,
shadows, double
rainbows...
hundreds of other
phenomena visible
with the naked eye



Nature Of Light And Colour In The Open Air

Marcel Minnaert



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The Nature of Light & Colour in the Open Air M. Minnaert, 1954 **Color and Light in Nature** David K. Lynch, William Charles Livingston, 2001-06-11 We live in a world of optical marvels from the commonplace but beautiful rainbow to the rare and eerie superior mirage But how many of us really understand how a rainbow is formed why the setting sun is red and flattened or even why the sky at night is not absolutely black This beautiful and informative guide provides clear explanations to all naturally occurring optical phenomena seen with the naked eye including shadows halos water optics mirages and a host of other spectacles Separating myth from reality it outlines the basic principles involved and supports them with many figures and references A wealth of rare and spectacular photographs many in full color illustrate the phenomena throughout In this new edition of the highly acclaimed guide to seeing photographing and understanding nature s optical delights the authors have added over 50 new images and provided new material on experiments you can try yourself

The Principles of Psychology William James , 1918 *How to Photograph & Process Nightscapes and Time-Lapses* Alan Dyer, 2014-11-22 The book describes How to shoot and process still image nightscapes images of landscapes taken at night by the light of the Moon or stars and How to shoot and assemble time lapse movies of the stars and Milky Way turning above Earthly scenes all using DSLR cameras The 400 page multi touch book includes 50 embedded HD videos no internet connection required demonstrating time lapse techniques 60 multi page tutorials with step by step instructions of how to use software Adobe Bridge Adobe Camera Raw Photoshop Lightroom LRTimelapse Advanced Stacker Actions StarStaX Panolapse Sequence GBTimelapse and more Numerous Photo 101 sections explaining the basic concepts of photography and video production f stops ISOs file types aspect ratios frame rates compression etc Numerous Astronomy 101 sections explaining the basics of how the sky works how the sky moves where the Moon can be found when the Milky Way can be seen when and where to see auroras Reviews of gear I don t just mention that specialized gear exists I illustrate in detail how to use popular units such as the Time Lapse Michron and TriggerTrap intervalometers and the All View mount Radian Mandarin Astro eMotimo and Dynamic Perception motion control units with comments on what s good and not so good to use You ll learn What are the best cameras and lenses to buy cropped vs full frame Canon vs Nikon manual vs automatic lenses zooms vs primes How to set your cameras and lenses for maximum detail and minimum noise following the mantra of exposing to the right and using dark frames How to shoot auroras conjunctions satellites comets and meteor showers How to shoot nightscapes lit only by moonlit and how to determine where the Moon will be to plan a shoot How to shoot stitch panoramas of the night sky and Milky Way using Photoshop and PTGui software How to shoot tracked long exposures of the Milky Way using camera trackers such as the iOptron Star Tracker and Sky

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 to avoid problems in the field *Light and Color in the Outdoors* Marcel Minnaert, 2012-12-06 All of science springs from
 the observation of nature In this classic book the late Marcel Minnaert accompanies the reader on a tour of nature's light and
 color and reveals the myriad phenomena that may be observed outdoors with no more than a pair of sharp eyes and an
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 describes a number of simple methods for showing that light is polarised and determining the direction of vibration It is
 based on a demonstration lecture called Polar Explorations in Light developed for young audiences at the Royal Institution of
 Great Britain *The Climate Near the Ground* Rudolf Geiger, Robert H. Aron, Paul Todhunter, 2003-04-09 This revised and
 updated edition of Rudolf Geiger's classic text provides a clear and vivid description of the surface microclimate its physical
 basis and its interactions with the biosphere The book explains the principles of microclimatology and illustrates how they
 apply to a wide array of subfields Those new to the field will find it especially valuable as a guide to understanding and
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 environmental science this book will also be an essential reference for scientists seeking a clear understanding of the nature
 and physical basis of the climate near the ground and its interactions with the biosphere **Introduction to Light** Gary
 Waldman, 2002-01-01 Designed for a nonmathematical undergraduate optics course addressed to art majors this four part
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