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Titolo	Areas of intense drought distress, 1930-1936 / / prepared by Francis D. Cronin and Howard W. Beers
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Descrizione fisica	1 online resource (iv, 54 pages) : illustrations, maps
Collana	Research bulletin ; ; [ser. 5, no. 1]
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Autore	Green Phil
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Disciplina	535.6
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Nota di contenuto	Intro -- Fundamentals and Applications of Colour Engineering -- Contents -- Series Editor's Foreword -- Preface -- Introductory Notes -- 1 Instruments and Methods for the Colour Measurements Required in Colour Engineering -- 1.1 Introduction -- 1.1.1 The Need for Colorimetry -- 1.1.2 The Principles of Colorimetry -- 1.1.3 Making the Transition from What We "See" to Quantifying How We "Match" a Colour -- 1.2 Visual Colorimetry -- 1.2.1 A Method to Uniquely Map the Colour of Lights and Objects -- 1.2.2 Development of the CIE Method of Visual Colorimetry -- 1.2.3 Applications of Visual Colorimetry -- 1.2.4 Disadvantages of Visual Colorimetry -- 1.3 Analogue Simulation of Visual Colorimetry -- 1.3.1 Replacing the Human Eye with an Optoelectronic Sensor -- 1.3.2 Substituting Coloured Filters to Approximate the CIE Colour-Matching Functions -- 1.3.3 Assessing the "Goodness of Fit" of a Set of Colorimeter Filters -- 1.3.4 Schematic Description of Analogue Filter Colorimeters -- 1.3.5 Disadvantages of Analogue Filter Colorimeters -- 1.4 Digital Simulation of Visual Colorimetry -- 1.4.1 Replacing the Analogue Filters with an Abridged Spectrometer -- 1.4.2 Assessing the "Goodness of Fit" of Abridged Spectrometers -- 1.4.3 Schematic Description of Digital Spectrocolorimeters -- 1.4.4 Advantages and Disadvantages of Digital

Spectrocolorimeters -- 1.5 Selecting and Using Colorimeters and Spectrocolorimeters -- 1.5.1 Reading and Understanding Specifications and Technical Literature -- 1.5.2 Verifying Performance Specifications -- 1.5.3 Standards of Colour and Colour-difference -- 1.5.4 Sources of Error and Uncertainty in the Measurement of Reflectance, Transmittance and Radiance -- 1.6 Geometric Requirements for Colour Measurements -- 1.6.1 Colour Measurements from Self-Luminous Objects -- 1.6.2 Colour Measurements from Reflecting or Transmitting Objects.
1.7 Conclusions and Expectations -- 1.7.1 Current CIE and ISO Activities in Colour and Colour-difference Measurements -- 1.7.2 Quality Management Systems and Colour Measurements -- References -- 2 Colorimetry and Colour Difference -- 2.1 Introduction -- 2.2 Colorimetry -- 2.3 Normalization -- 2.4 Colour Matching Functions -- 2.5 Illuminants -- 2.6 Data for Observers and Illuminants -- 2.7 Range and Interval -- 2.8 Calculation of Chromaticity -- 2.9 Calculation of CIE 1976 Uniform Colour Spaces -- 2.10 Inversion of CIELAB Equations -- 2.11 Colour Difference -- 2.12 Problems with Using UCS Colour Difference -- 2.13 Uniformity of the Components of Colour Difference -- 2.13.1 Chroma -- 2.13.2 Hue -- 2.13.3 Lightness -- 2.14 Viewing Conditions -- 2.15 Surface Characteristics -- 2.16 Acceptability of Colour Differences -- 2.17 Overcoming the Limitations of UCS Colour Difference with Advanced Colour Difference Metrics -- 2.18 CIE94 -- 2.19 CIEDE2000 -- 2.20 Progress on Colour Difference Metrics since CIEDE2000 -- 2.21 3D Colour Difference -- 2.22 Colour Difference in High Luminance Conditions -- 2.23 Colour Difference Formulas Based on Colour Appearance Models -- 2.24 Limitations in the Use of Advanced Colour Difference Metrics in Colour Imaging -- 2.25 Basis Conditions -- 2.25.1 Illuminant -- 2.25.2 Illuminance -- 2.25.3 Sample Separation -- 2.25.4 Sample Size and Image Structure -- 2.26 Colour Difference in Complex Images -- 2.27 Acceptability and Perceptibility -- 2.28 Large vs Small Differences -- 2.29 Deriving Colour Difference Tolerances -- 2.30 Sample Preparation -- 2.31 Psychophysical Experiments -- 2.31.1 Observer Variability and Experience -- 2.32 Colour Difference Judgements by Observers with a Colour Vision Deficiency -- 2.33 Calculating Colour Tolerances from Experimental Data.
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9.1.4 Gamut of an Image.

Sommario/riassunto

"The Wiley SID book series organizers and our editorial team believe that there is a strong need in the display field for a comprehensive book describing the manufacturing of the display panels used in today's display products. The objective of this book, entitled Flat Panel Display Manufacturing, is to give a broad overview for the key manufacturing topics, serving as a reference text. The book will cover all aspects of the manufacturing processes of TFT LCD and AMOLED, which includes the fabrication processes of the TFT backplane, cell process, module packaging, and test processes. Additionally, the book introduces important topics in manufacturing science and engineering related to quality control, factory and supporting systems architectures, and green manufacturing. The book can serve as a reference book not only for display engineers in the field, but also for students in display fields. One might think that flat panel display manufacturing is a mature subject, but the state of the art manufacturing technologies enabling today's high end TFT LCDs and OLED displays are still evolving for the next generation displays. The editorial team invited authors from major display manufacturers and experts in each manufacturing topic (equipment, processing, etc.). Last but not least, we are also grateful to the Wiley SID book series team, and especially to Dr. Ian Sage for help planning, reviewing the early drafts, and bringing this book to light."--