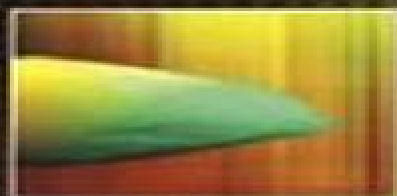


STEPHEN WESTLAND CATERINA RIPAMONTI

COMPUTATIONAL COLOR SCIENCE



USING MATLAB

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Computational Colour Science Using MATLAB Stephen Westland, Caterina Ripamonti, Vien Cheung, 2012-06-29

Computational Colour Science Using MATLAB 2nd Edition offers a practical problem based approach to colour physics. The book focuses on the key issues encountered in modern colour engineering including efficient representation of colour information, Fourier analysis of reflectance spectra and advanced colorimetric computation. Emphasis is placed on the practical applications rather than the techniques themselves, with material structured around key topics. These topics include colour calibration of visual displays, computer recipe prediction and models for colour appearance prediction. Each topic is carefully introduced at three levels to aid student understanding. First, theoretical ideas and background information are discussed; then, explanations of mathematical solutions follow; and finally, practical solutions are presented using MATLAB. The content includes a compendium of equations and numerical data required by the modern colour and imaging scientist. Numerous examples of solutions and algorithms for a wide range of computational problems in colour science are provided, along with example scripts using the MATLAB programming language. This 2nd edition contains substantial new and revised material, including three innovative chapters on colour imaging, psychophysical methods and physiological colour spaces. The MATLAB toolbox has been extended with a professional optimized toolbox to go alongside the current teaching toolbox, and a Java toolbox has been added, which will interest users who are writing web applications and/or applets or mobile phone applications. Computational Colour Science Using MATLAB 2nd Edition is an invaluable resource for students taking courses in colour science, colour chemistry and colour physics, as well as technicians and researchers working in the area. In addition, it acts as a useful reference for professionals and researchers working in colour dependent industries such as textiles, paints, print, electronic imaging. Review from First Edition: highly recommended as a concise introduction to the practicalities of colour science. Color Technology 2004.

Computational Colour Science using MATLAB Professor Stephen Westland, Caterina Ripamonti, 2004-04-30. Presenting a practical problem based approach to colour physics, this title describes the key issues encountered in modern colour engineering, including efficient representation of colour information, Fourier analysis of reflectance spectra and advanced colorimetric computation. Emphasis is placed on the practical applications rather than the techniques themselves, with material structured around key topics such as colour calibration of visual displays, computer recipe prediction and models for colour appearance prediction. Each topic is carefully introduced at three levels to enhance student understanding. Firstly, theoretical ideas and background information are discussed; then, explanations of mathematical solutions follow; and finally, practical solutions are presented using MATLAB. Includes a compendium of equations and numerical data required by the modern colour and imaging scientist. Numerous examples of solutions and algorithms for a wide range of computational problems in colour science are provided, along with example scripts using the MATLAB programming language. This text is a must have for students taking courses in colour science, colour chemistry and colour physics, as well as

technicians and researchers working in the area

Computational Colour Science Using MATLAB, Second Edition
Stephen Westland, Caterina Ripamonti, Vien Cheung, 2012

Computational Colour Science Using MATLAB, 2nd Edition
Stephen Westland, Caterina Ripamonti, Vien Cheung, 2012

Computational Colour Science Using MATLAB 2nd Edition offers a practical problem based approach to colour physics The book focuses on the key issues encountered in modern colour engineering including efficient representation of colour information Fourier analysis of reflectance spectra and advanced colorimetric computation Emphasis is placed on the practical applications rather than the techniques themselves with material structured around key topics These topics include colour calibration of visual displays computer recipe prediction and models for colour appearance prediction Each topic is carefully introduced at three levels to aid student understanding First theoretical ideas and background information are discussed then explanations of mathematical solutions follow and finally practical solutions are presented using MATLAB The content includes A compendium of equations and numerical data required by the modern colour and imaging scientist Numerous examples of solutions and algorithms for a wide range of computational problems in colour science Example scripts using the MATLAB programming language This 2nd edition contains substantial new and revised material including three innovative chapters on colour imaging psychophysical methods and physiological colour spaces the MATLAB toolbox has been extended with a professional optimized toolbox to go alongside the current teaching toolbox and a java toolbox has been added which will interest users who are writing web applications and or applets or mobile phone applications Computational Colour Science Using MATLAB 2nd Edition is an invaluable resource for students taking courses in colour science colour chemistry and colour physics as well as technicians and researchers working in the area In addition it acts a useful reference for professionals and researchers working in colour dependent industries such as textiles paints print electronic imaging Review from First Edition highly recommended as a concise introduction to the practicalities of colour science Color Technology 2004

Colour Physics Frequently Asked Questions
Stephen Westland, 2012-03-09

What is colour How does colour vision work Why is the sky blue What is the colour spectrum The answers to these and many other related questions about colour physics are each provided in a short and easy to understand form Will delight and entertain colour professionals and curious members of the public What is additive colour mixing Additive colour mixing refers to the mixing of different coloured lights and can be easily demonstrated by the superposition of lights known as primaries on a white projection screen When this is done using red green and blue primaries the colours yellow cyan and magenta are produced where two of the primaries overlap Where all three primaries overlap the sensation of white is produced if the spectral distributions and intensities of the three primaries are carefully chosen Additivity is not a special property of any particular set of three primaries The range of colours that can be matched with any three primaries is called the gamut of those primaries One often reads that the primaries are pure and cannot be matched from other colours This is not true If one uses three primaries such as red green and blue it is true that none of the primaries

can be matched by mixtures of the other two or by mixtures of any other colours in the gamut of the primary system. However, one could select colours outside the gamut of the system which when mixed together could match the primaries. It turns out that no three real primaries can be chosen so that their gamut includes all possible colours. If the primaries are chosen to be red, green, and blue, however, a very large number of colours can be matched. Red, green, and blue are therefore usually the colours of the primaries in an additive colour reproduction system such as colour television.

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