

Stephen Westland Caterina Ripamonti

# COMPUTATIONAL COLOUR SCIENCE



USING MATLAB

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# Computational Colour Science Using Matlab

**Arthur James Wells**

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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 explanations of mathematical solutions then 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 Provides 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

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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 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

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