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Titolo	Multi-modality microscopy [[electronic resource] /] / editors, Hanry Yu ...[et al.]
Pubbl/distr/stampa	New Jersey, : World Scientific, c2006
ISBN	1-281-91958-6 9786611919580 981-277-462-9
Descrizione fisica	1 online resource (316 p.)
Altri autori (Persone)	YuHanry
Disciplina	681/.413
Soggetti	Confocal microscopy Polarizing microscopes Multiphoton excitation microscopy Fluorescence microscopy 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 and index.
Nota di contenuto	Contents ; Preface ; Chapter 1. Basic Principles of Imaging ; 1. Light Microscopy ; 2. Image Acquisition ; 3. Data Correction ; 4. Video Enhanced Contrast ; 5. Image Processing ; 6. Deconvolution ; 7. Three-Dimensional Rendering ; References Chapter 2. Optics for the Biologist: What You Need to Know to Make Your Light Microscope Work Properly 1. Introduction ; 2. The Problem of Spheres ; 3. 'Tube' Length and Magnification ; 4. What to Do? ; 5. Intermediate Summary ; 6. Detecting Spherical Aberration 7. How Do You Correct Spherical Aberration? 8. Upon Reflection ; 9. Conclusion ; References ; Chapter 3. Spherical Aberration in Confocal Microscopy ; 1. Introduction ; 2. Aberration Introduced by Refractive Index Mismatch

3. Compensation by Alteration of Immersion Medium Refractive Index
4. Validity of the Debye Approximation in the Presence of Spherical Aberration ; 5.
Conclusion ; 6. Acknowledgements ;
References
Chapter 4. Deconvolution and Image Quality Control - Valuable Tools in Multi-Dimensional Light Microscopy
1. Introduction ; 2. Background ; 3. Image Restoration ; 4. Image Quality Control ; 5. Conclusion ; 6. Acknowledgements ;
References
Chapter 5. Quantitative Polarised Light Microscopy

Sommario/riassunto

This book covers important aspects of modern optical microscopy and image restoration technologies. Instead of pure optical treatment, the book is delivered with the consideration of the scientists who utilize optical microscopy in their daily research. However, enough details are provided in basic imaging principles, optics and instrumentation in microscopy, spherical aberrations, deconvolution and image restoration. A number of microscopic technologies such as polarization, confocal and multi-photon microscopy are highlighted with their applications in biological and materials sciences/engi

2. Record Nr.	UNINA9911015687403321
Autore	Rantanen Taina
Titolo	Advancing Research on Active Aging and Participation : A Public Health Approach / / by Taina Rantanen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031947025 9783031947018
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (224 pages)
Disciplina	362.6
Soggetti	Gerontology Sports sciences Occupational therapy Public health Physical therapy Sport Science Occupational Therapy Public Health Physiotherapy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Overview -- 2. Five considerations for studying active aging and functioning -- 3. Aging and health research designs and central concepts -- 4. Theoretical approaches to aging research -- 5. Active Aging -- 6. Functional capacity, activities and participation -- 7. Promoting engagement in meaningful activities -- 8. Fostering functional capacity -- 9. Life course influences on growing old and healthy aging -- 10. Work as active aging.
Sommario/riassunto	This book covers the central aspects of Advancing Research on Active Aging and Participation, illustrating how individuals can prepare for old age and promote their own well-being. The increase in the aging population has been foreseen for a long time. Traditionally, aging is considered to comprise progressive decline of health and social life, stemming from biased selection of predominantly negative outcomes in

studies. However, changes in the life stage of old age have been so rapid that the general perception of growing old has become somewhat outdated. There is an evident need for a multidisciplinary work that describes aging and old age based on the latest knowledge. Dealing with aging in all areas of society should be based on knowledge, not assumptions. This book provides up-to-date information on how aging can be studied and how modern times are reshaping it. Besides, it demonstrates how a more positive approach in aging research will structure the ideas and alleviate the prejudices we have about aging and old age. The book is intended for students and professionals in the social, leisure and health care fields at universities. It can also be adopted for education in the fields of physical education, medicine, and psychology. Additionally, individuals working in the field of health, functional ability, physical activity, rehabilitation, mental health, and well-being of the aging population will benefit from this work.
