

SPIE eBooks Titles

In 2018, SPIE eBooks are offered as a single collection^[1], published from 1989 to 2017, plus the titles published in 2018. The first table below includes titles published 1989 – 2017, the second table lists ebooks that have been published in 2018. In each table, the number of chapters for each book includes any appendices. *SPIE Field Guides* have many entries of one to two pages grouped into sections; both the numbers of entries and sections are provided.

SPIE intends to publish at least 15 eBooks and 10 Spotlights each year, in general titles and editions will be published first as SPIE ebooks.^[2] Details for each title are available at spie.org/books.

Founded in 1989, SPIE Press currently publishes four types of books to serve engineers, scientists, and students in the range of subject matter related to optics and photonics:

SPIE Press Monographs are authoritative reference books, textbooks, and handbooks that cover theory, applications, and outlooks on topics of special interest to scientists and engineers.

SPIE Tutorial Texts are stand-alone tutorials that cover fundamental and emerging topics in optical science and technology, at introductory and intermediate levels, making them valuable to students and researchers entering new fields of inquiry.

SPIE Field Guides present key definitions, equations, illustrations, application examples, design considerations, methods, and tips that students and practicing engineers and scientists need in a concise format.

SPIE Spotlights are concise, eBook-only publications that either summarize a broad topic or highlight a specific niche. Written for a wide audience, these peer-reviewed eBooks get straight to the point, highlighting the most important aspects of the given subject.

^[1] *Fundamentals of Photonics* is available online without charge on both SPIE.org and SPIE eBooks.

^[2] In rare cases eBook rights will not be available and a book published by SPIE Press will not be included in SPIE ebooks.

ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
9780819452948	9780819478160	Field Guide to Geometrical Optics	FG01	128	2004
9780819453181	9780819478177	Field Guide to Atmospheric Optics	FG02	112	2004
9780819453198	9780819478184	Field Guide to Adaptive Optics	FG03	82	2004
9780819456298	9780819478191	Field Guide to Visual and Ophthalmic Optics	FG04	124	2004
9780819458681	9780819478207	Field Guide to Polarization	FG05	148	2005
9780819462077	9780819478214	Field Guide to Optical Lithography	FG06	136	2006
9780819462183	9780819478221	Field Guide to Optical Thin Films	FG07	118	2006
9780819463524	9780819478238	Field Guide to Spectroscopy	FG08	124	2006
9780819463616	9780819478245	Field Guide to Infrared Systems	FG09	116	2006
9780819465108	9780819478252	Field Guide to Interferometric Optical Testing	FG10	114	2006
9780819467683	9780819481221	Field Guide to Illumination	FG11	152	2007
9780819469618	9780819478269	Field Guide to Lasers	FG12	152	2008
9780819472465	9780819478917	Field Guide to Microscopy	FG13	156	2010
9780819472489	9780819478276	Field Guide to Laser Pulse Generation	FG14	132	2008
9780819480804	9780819480811	Field Guide to Infrared Systems, Detectors, and FPAs, 2nd Ed	FG15	194	2010
9780819480903	9780819480910	Field Guide to Optical Fiber Technology	FG16	128	2010
9780819485489	9780819485496	Field Guide to Physical Optics	FG17	130	2013
9780819485502	9780819485519	Field Guide to Special Functions for Engineers	FG18	116	2011
9780819486493	9780819486509	Field Guide to Binoculars and Scopes	FG19	152	2011
9780819486769	9780819486776	Field Guide to Optical Fabrication	FG20	134	2011
9780819486905	9780819486912	Field Guide to Diffractive Optics	FG21	134	2011
9780819487018	9780819487025	Field Guide to Probability, Random Processes, and Random Data Analysis	FG22	108	2012
9780819488275	9780819488282	Field Guide to Radiometry	FG23	134	2011
9780819490179	9780819490186	Field Guide to Adaptive Optics, 2nd Ed	FG24	142	2012
9780819490216	9780819490223	Field Guide to Image Processing	FG25	96	2012
9780819491619	9780819491626	Field Guide to Optomechanical Design and Analysis	FG26	156	2012
9780819491640	9780819491657	Field Guide to Lens Design	FG27	156	2012
9780819491671	9780819491688	Field Guide to Terahertz Sources, Detectors, and Optics	FG28	144	2012
9780819496355	9780819496362	Field Guide to Nonlinear Optics	FG29	112	2013
9780819497994	9780819498007	Field Guide to Displacement Measuring Interferometry	FG30	154	2014
9780819499578	9780819499585	Field Guide to Holography	FG31	92	2014

ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
9781628411775	9781628411782	Field Guide to Astronomical Instrumentation	FG32	156	2015
9781628411836	9781628411843	Field Guide to Digital Micro-Optics	FG33	180	2014
9781628413342	9781628413359	Field Guide to Fiber Optic Sensors	FG34	106	2014
9781628415476	9781628415483	Field Guide to Linear Systems in Optics	FG35	120	2015
9781628416541	9781628416558	Field Guide to Lidar	FG36	168	2015
9781510601246	9781510601253	Field Guide to Molded Optics	FG37	172	2016
9780819401304	9780819481030	New Physical Optics Notebook, The: Tutorials in Fourier Optics	PM01	572	1989
9780819407634	9780819479013	Optics in Photography	PM06	300	1992
9780819416544	9780819481238	Soft X-Ray Optics	PM15	290	1994
9780819477767	9780819478443	Optical Scattering: Measurement and Analysis, 2nd Ed	PM24	334	1995
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9780819465092	9780819480446	Optical Thin Films: User Handbook	PM37	304	1996
9780819423771	9781510607958	A System Engineering Approach to Imaging	PM38	704	1998
9780819497864	9781510607965	Handbook of Microlithography, Micromachining, and Microfabrication. Volume 1: Microlithography	PM39	776	1997
9780819423795	9781510607972	Handbook of Microlithography, Micromachining, and Microfabrication, Volume 2: Micromachining and Microfabrication	PM40	700	1997
9780819424617	9780819486462	Rotating Mirror Streak and Framing Cameras	PM43	110	1997
9780819425133	9780819478450	Random Processes for Image and Signal Processing	PM44	616	1998
9780819425157	9780819478795	Optical Imaging and Aberrations: Part I. Ray Geometrical Optics	PM45	500	1998
9780819426161	9780819478467	Special Functions of Mathematics for Engineers, 2nd Ed	PM49	504	1997
9780819432261	9780819478474	Optical Systems and Processes	PM65	434	1999
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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9780819436238	9780819481191	Handbook of Medical Imaging, Volume 2. Medical Image Processing and Analysis	PM80	1218	2000
9780819436214	9780819481207	Handbook of Medical Imaging, Volume 3. Display and PACS	PM81	512	2000
9780819436986	9780819480392	Scientific Charge-Coupled Devices	PM83	920	2001
9780819495983	9781510607941	MEMS and MOEMS Technology and Applications	PM85	528	2000
9780819439154	9780819478504	Fundamental Optical Design	PM92	314	2001
9780819496003	9781510608085	Helmet-Mounted Displays: Design Issues for Rotary-Wing Aircraft	PM93	258	2001
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9780819441355	9780819478801	Optical Imaging and Aberrations, Part II. Wave Diffraction Optics	PM103	472	2001
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9780819445063	9780819478290	Mathematical Techniques for Engineers and Scientists	PM118	820	2003
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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9780819451415	9781510607880	Two Methods for the Exact Solution of Diffraction Problems	PM127	142	2003
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9780819452177	9780819478313	Intermediate Optical Design	PM134	280	2004
9780819452184	9780819481139	Infrared Fibers and Their Applications	PM135	312	2004
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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9780819475602	9780819481825	Optical Lithography: Here Is Why	PM190	492	2010
9780819475619	9780819491145	Lighter Side of Adaptive Optics	PM191	122	2009
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9780819483263	9780819483270	Numerical Simulation of Optical Wave Propagation with Examples in MATLAB	PM199	212	2010
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9780819483584	9780819483591	Enhanced Optical Filter Design	PM201	168	2011
9780819483669	9780819483676	Basic Optics for the Astronomical Sciences	PM202	400	2012
9780819483690	9780819483706	Optical Design for Biomedical Imaging	PM203	450	2010
9780819483973	9780819483980	Color Vision and Colorimetry: Theory and Applications, 2nd Edition	PM204	188	2011
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9780819485649	9780819485656	Color Image Processing with Biomedical Applications	PM206	434	2011
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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9780819489715	9780819489722	Problems and Answers in Wave Optics	PM216	124	2011
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9780819492487	9780819492494	Integrated Optomechanical Analysis, 2nd Ed	PM223	400	2012
9780819492517	9780819492524	Optical Scattering: Measurement and Analysis, 3rd Ed	PM224	330	2012
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9780819492579	9780819492586	Spectral Computed Tomography	PM226	130	2012
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9780819493224	9780819493231	Value Metrics for Better Lighting	PM228	122	2013
9780819493255	9780819493262	Stray Light Analysis and Control	PM229	228	2013
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9780819494528	9780819494535	Maxwell's Equations of Electrodynamics: An Explanation	PM232	104	2012
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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9780819496416	9780819496430	Windowed Fringe Pattern Analysis	PM239	300	2013
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9780819499981	9780819499998	Fundamentals of Geometrical Optics	PM245	472	2014
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
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ISBN	PDF ISBN	Title	SPIE Vol.	Page Count	Pub Year
n/a	9781510603592	Arrayed Waveguide Gratings	SL16	74	2016
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n/a	9781510603691	3-D Integral Photography	SL18	42	2016
n/a	9781510604391	<i>In Vivo</i> Microscopy in the Male and Female Genital Tract	SL19	28	2016
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n/a	9781510613690	Optical Gas Sensing Based on MEMS FTIR Spectrometers	SL32	40	2017
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