

**DEPARTMENT OF PHYSICS**

**GOVERNMENT COLLEGE, RAYACHOTY**

**FREE e-BOOKS FOR PHYSICS**

Web address: <http://physicsdatabase.com/free-physics-books/>

- **A Brief Introduction to Particle Physics**
- **A Course on Thermodynamics of Materials**
- **A First Course in General Relativity**
- **A Full College Course in Thermodynamics**
- **A No-Nonsense Introduction to General Relativity**
- **A Text Book for High School Students Studying Physics**
- **Advanced Placement Physics**
- **Age of Einstein**
- **An Introduction to Elementary Particles**
- **An Introduction to Many Worlds in Quantum Computation**
- **An Introduction to Relativistic Quantum Mechanics**
- **Basic Concepts in Thermodynamics**
- **Basic Principles of Classical and Statistical Thermodynamics**
- **Board Notes for Particle Physics**
- **Calculus Based Physics**
- **Circuit QED — Lecture Notes**
- **Classical Dynamics**
- **Classical Mechanics**
- **Computational Physics with Python**
- **Conceptual Physics**
- **Consistent Quantum Theory**
- **College Physics**
- **Decoherence: Basic Concepts and Their Interpretation**
- **Discover Physics**
- **Do We Really Understand Quantum Mechanics?**
- **Dynamics and Relativity**
- **Einstein for Everyone**
- **Electromagnetic Field Theory**
- **Elementary Particle Physics in a Nutshell**
- **Elementary Particles in Physics**
- **Experimental Particle Physics**
- **Fields**
- **Fundamentals of Thermodynamics**
- **Fusion Physics**
- **General Relativity**
- **General Relativity**

- [How to Use Experimental Data to Compute the Probability of Your Theory](#)
- [Intermediate Thermodynamics](#)
- [Introduction to General Relativity](#)
- [Introduction to Particle Physics: Notes](#)
- [Introduction to Quantum Noise, Measurement and Amplification](#)
- [Introduction to Quantum Mechanics with Applications to Chemistry](#)
- [Introduction to the Time Evolution of Open Quantum Systems](#)
- [Introduction to Quantum Mechanics](#)
- [Introduction to String Field Theory](#)
- [Introductory Computational Physics](#)
- [Introductory Physics 1](#)
- [Introductory Physics 2](#)
- [Kinetic Theory](#)
- [Laboratory Manual for Introductory Physics](#)
- [Lecture Notes in Quantum Mechanics](#)
- [Lecture Notes in Nuclear and Particle Physics](#)
- [Lecture Notes in Particle Physics](#)
- [Lecture Notes on General Relativity](#)
- [Lecture Notes on Thermodynamics and Statistical Mechanics](#)
- [Lectures on Heat and Thermodynamics](#)
- [Lectures on Particle Physics](#)
- [Light and Matter](#)
- [Many Particle Physics](#)
- [Modern Thermodynamics](#)
- [Motion Mountain](#)
- [Notes on Elementary Particle Physics](#)
- [Notes on Quantum Mechanics](#)
- [On Particle Physics](#)
- [Particle Physics Lecture Notes](#)
- [Perspectives in Quantum Physics: Epistemological, Ontological and Pedagogical](#)
- [People's Physics Book](#)
- [Photons, Schmotons](#)
- [Physics Lectures](#)
- [Preparing for College Physics](#)
- [Quantum Dissipative Systems](#)
- [Quantum Field Theory](#)
- [Quantum Fluctuations](#)
- [Quantum Information Theory](#)
- [Quantum Magnetism](#)
- [Quantum Mechanics](#)
- [Quantum Mechanics: A Graduate Course](#)
- [Quantum Mechanics: An Intermediate Level Course](#)
- [Quantum Notes](#)
- [Quantum Physics Notes](#)

- Quantum Theory of Many – Particle Systems
- Quantum Transients
- Relativistic Quantum Dynamics
- Relativity: The Special and General Theory
- Simple Nature
- Solitons
- Special Relativity
- Statistical Physics
- String Theory
- Superspace: One Thousand and One Lessons in Supersymmetry
- The Basic Paradoxes of Statistical Classical Physics and Quantum Mechanics
- The Beginning and the End of the Universe
- The General Theory of Relativity
- The Physics of Quantum Mechanics
- Thermodynamics and Chemistry
- Thermodynamics — Fundamentals and its Applications in Science
- The Small n Problem in High Energy Physics
- Understanding Physics

Free Physics e-books web link:1. <https://manybooks.pdf.com/>

2. <https://ebookstore.me/>

3. <https://www.pdfdrive.com/physics-books.html>

4. <https://bookboon.com/en/physics-ebooks-zip>

5. <https://www.e-bookdirectory.com/listing.php?category=2>



<https://www.e-booksdirectory.com/physics.php>

1. **Special Relativity**  
David W. Hogg | Center for Cosmology and Particle Physics, Published in 1997, 53 pages
2. **Nanomaterials - A Sojourn**  
B Viswanathan | National Centre for Catalysis Research, Published in 2006, 46 pages
3. **The Quantum Revolution**  
Roy McWeeny | Learning Development Institute, Published in 2011, 157 pages
4. **Mechanics and Special Relativity**  
Howard Georgi | Harvard College, Published in 2005, 203 pages
5. **The Monte Carlo Method in Quantum Field Theory**  
Colin Morningstar | arXiv, Published in 2007, 77 pages
6. **Vibrational Thermodynamics of Materials**  
Brent Fultz | Caltech, Published in 2009, 145 pages
7. **Computational Physics**  
Konstantinos Anagnostopoulos | National Technical University of Athens, Published in 2014, 682 pages
8. **Lectures on Quantum Physics and Applications**  
Paul E. Dimotakis | California Institute of Technology, Published in 1980, 427 pages
9. **Emergent Models for Gravity: an overview**  
L. Sindoni | arXiv, Published in 2011, 34 pages
10. **Today's Take on Einstein's Relativity**  
H. B. Tilton, F. Smarandache | Pima College Press, Published in 2005, 109 pages
11. **Numerical Methods in Quantum Mechanics**  
Paolo Giannozzi | University of Udine, Published in 2013, 101 pages
12. **Lecture Notes on Classical Mechanics**  
Sunil Golwala | California Institute of Technology, Published in 2007, 396 pages
13. **The Octonions**  
John C. Baez | University of California, Published in 2001, 56 pages
14. **Structure Functions**  
A. De Roeck, R.S. Thorne | arXiv, Published in 2011, 72 pages
15. **Modeling and Simulation in Python**  
Allen B. Downey | Green Tea Press, Published in 2017, 206 pages
16. **Realism-Completeness-Universality interpretation of quantum mechanics**  
Petr Hajicek | arXiv, Published in 2015, 307 pages
17. **Dynamics of Mechanical Systems**  
Janusz Krodkiwski | , Published in 2008, 199 pages
18. **The Einstein Theory of Relativity**  
Hendrik Antoon Lorentz | Feedbooks, Published in 1920
19. **Solution of the Cauchy problem for the Navier - Stokes and Euler equations**  
A. Tsionskiy, M. Tsionskiy | arXiv, Published in 2010, 65 pages

20. [The Physical Basis Of Music](#)  
E. T. Jaynes | Washington University, Published in 1996
21. [Elementary Principles of Statistical Mechanics](#)  
Josiah Willard Gibbs | Charles Scribner's Sons, Published in 1902, 273 pages
22. [Quantum Electrodynamics](#)  
Ingemar Bengtsson | Stockholms universitet, Fysikum, Published in 2003, 102 pages
23. [Neutrino Physics](#)  
R. D. Peccei | arXiv, Published in 1999, 45 pages
24. [Quantization of Geometry](#)  
Jan Ambjorn | arXiv.org, Published in 1995, 101 pages
25. [Multigrid Methods for Structured Grids and their Application in Particle Simulation](#)  
Matthias Bolten | John von Neumann Institute for Computing, Published in 2008, 153 pages
26. [Roller Coaster Physics](#)  
Tony Wayne | , Published in 1998, 155 pages
27. [Quantum Einstein Gravity](#)  
Martin Reuter, Frank Saueressig | arXiv, Published in 2012, 87 pages
28. [Computational Fluid Dynamics: Technologies and Applications](#)  
Igor V. Minin, Oleg V. Minin | InTech, Published in 2011, 396 pages
29. [Physics](#)  
Cope, Smith, Tower, Turton | P. Blakiston's Son & Co., Published in 1920, 492 pages
30. [Lectures on complex geometry, Calabi-Yau manifolds and toric geometry](#)  
Vincent Bouchard | arXiv, Published in 2007, 63 pages
31. [Quantum Mechanics - Lecture Notes](#)  
Eyal Buks | Technion, Published in 2014, 570 pages
32. [Computational Physics: Problem Solving with Computers](#)  
Rubin H Landau, Manuel J Paez, Cristian Bordeianu | Wiley-VCH, Published in 2012, 526 pages
33. [Henri Poincare and Relativity Theory](#)  
A. A. Logunov | arXiv, Published in 2005, 254 pages
34. [Atomic Physics](#)  
P. Ewart | University of Oxford, Published in 2008, 68 pages
35. [Theory of Scanning Tunneling Microscopy](#)  
Samir Lounis | arXiv, Published in 2014, 30 pages
36. [Quantum Chromodynamics and Statistical Physics](#)  
Stephane Munier | arXiv, Published in 2014, 58 pages
37. [Notes on Quantum Mechanics](#)  
K. Schulten | University of Illinois at Urbana-Champaign, Published in 2000, 397 pages
38. [Gamma Radiation](#)  
Feriz Adrovic | InTech, Published in 2012, 320 pages
39. [Simple Nature](#)  
Benjamin Crowell | LightAndMatter.com, Published in 2017, 1020 pages
40. [Introduction to Loop Quantum Gravity](#)  
Simone Mercuri | arXiv, Published in 2010, 91 pages
41. [Ultrahigh Energy Cosmic Rays: Facts, Myths, and Legends](#)  
Luis Alfredo Anchordoqui | arXiv, Published in 2011, 92 pages
42. [Lattice QCD: concepts, techniques and some results](#)  
Christian Hoelbling | arXiv, Published in 2014, 65 pages
43. [Quantum Field Theory, Black Holes and Holography](#)  
Chethan Krishnan | arXiv, Published in 2010, 112 pages
44. [Optical properties of semiconductor nanostructures: decoherence versus quantum control](#)  
Ulrich Hohenester | arXiv, Published in 2004, 129 pages

45. [Metric Relativity and the Dynamical Bridge: highlights of Riemannian geometry in physics](#)  
Mario Novello, Eduardo Bittencourt | arXiv, Published in 2015, 121 pages
46. [Funadamentals Of Physical Science](#)  
Konrad Bates Krauskopf | McGraw-Hill, Published in 1948, 702 pages
47. [Quantum Chromodynamics and Hadrons: an Elementary Introduction](#)  
Alexander Khodjamirian | arXiv.org, Published in 2003, 52 pages
48. [Lecture Notes on Nanomagnetism](#)  
Olivier Fruchart | Institut Neel, Grenoble, Published in 2011, 82 pages
49. [Computational Physics](#)  
Matthias Troyer | ETH Zurich, Published in 2006, 129 pages
50. [The Meson Factories](#)  
T.E.O. Ericson, V.W. Hughes, D.E. Nagle | University of California Press, Published in 1991, 861 pages
51. [An Introduction to Heavy Mesons](#)  
Benjamin Grinstein | arXiv, Published in 1995, 64 pages
52. [Quantum mechanics: An intermediate level course](#)  
Richard Fitzpatrick | Lulu.com, Published in 2008, 267 pages
53. [Funky Mechanics Concepts](#)  
Eric L. Michelsen | UCSD, Published in 2013, 81 pages
54. [The Fusion Energy Program: The Role of TPX and Alternate Concepts](#)  
| U.S. Congress, Office of Technology Assessment, Published in 1995, 93 pages
55. [Quantum Mechanics Revisited](#)  
Jean Claude Dutailly | arXiv, Published in 2013, 65 pages
56. [The Meaning of Relativity](#)  
Albert Einstein | Princeton University Press, Published in 1922, 134 pages
57. [Atoms, Nature, and Man](#)  
Neal O. Hines | United States Atomic Energy Commission, Published in 1966, 65 pages
58. [Lectures on the Singularities of the Three-Body Problem](#)  
C.L. Siegel | Tata Institute of Fundamental Research, Published in 1967, 188 pages
59. [Architectural Physics](#)  
Paul Fendley | The University of Virginia, Published in 2001, 242 pages
60. [Using Multiscale Norms to Quantify Mixing and Transport](#)  
Jean-Luc Thiffeault | arXiv, Published in 2011, 52 pages
61. [Quantum Fluctuations](#)  
Edward Nelson | Princeton University Press, Published in 1985, 158 pages
62. [Harmonic Oscillators and Two-by-two Matrices in Symmetry Problems in Physics](#)  
Young Suh Kim (ed.) | MDPI AG, Published in 2017, 370 pages
63. [Introduction to the physics of hot and dense hadronic matter](#)  
Bengt Friman & Jörn Knoll | GSI, Published in 2012, 177 pages
64. [Introduction to Effective Field Theory](#)  
C. P. Burgess | arXiv, Published in 2007, 55 pages
65. [Quantum Optics: an Introduction](#)  
Maciej Lewenstein, Anna Sanpera, Matthias Pospiech | , Published in 2006, 90 pages
66. [The Standard Model](#)  
Thomas Teubner | Rutherford Appleton Laboratory, Published in 2008, 95 pages
67. [Basic Physics of Nuclear Medicine](#)  
Kieran Maher | Wikibooks, Published in 2006, 109 pages
68. [Atomic Physics](#)  
Wim Ubachs | Vrije Universiteit Amsterdam, Published in 2001
69. [Statistical Physics: a Short Course for Electrical Engineering Students](#)  
Neri Merhav | arXiv, Published in 2013, 146 pages
70. [Solutions to problems of Jackson's Classical Electrodynamics](#)  
Kasper van Wyk | Samizdat Press, Published in 1999, 61 pages

71. [\*\*A short course on Relativistic Heavy Ion Collisions\*\*](#)  
A. K. Chaudhuri | arXiv, Published in 2012, 123 pages
72. [\*\*Worked Examples from Introductory Physics\*\*](#)  
David Murdock | TTU, Published in 2008, 238 pages
73. [\*\*An Outline of First Year College Physics\*\*](#)  
Clarence E. Bennett | Barnes & Noble, Published in 1937, 214 pages
74. [\*\*The People's Physics Book\*\*](#)  
James H. Dann, James J. Dann | SCIPP, Published in 2006, 220 pages
75. [\*\*String Theory\*\*](#)  
Neil Lambert | King's College London, Published in 2010, 47 pages
76. [\*\*Interactions, Strings and Isotopies in Higher Order Anisotropic Superspaces\*\*](#)  
Sergiu I. Vacaru | arXiv, Published in 2001, 450 pages
77. [\*\*Random Matrices\*\*](#)  
B. Eynard | , Published in 2001, 119 pages
78. [\*\*From c-Numbers to q-Numbers\*\*](#)  
Olivier Darrigol | University of California Press, Published in 1993, 388 pages
79. [\*\*Lectures on Atomic Physics\*\*](#)  
Walter R. Johnson | University of Notre Dame, Published in 2006, 262 pages
80. [\*\*Non-Linear Optics\*\*](#)  
Wim Ubachs | Vrije Universiteit Amsterdam, Published in 2007, 85 pages
81. [\*\*Lie Theory and Special Functions\*\*](#)  
Willard Miller | Academic Press, Published in 1968, 338 pages
82. [\*\*The Renaissance of Science: The Story of the Atom, Mathematics, Astronomy and Physics\*\*](#)  
Albert Martini | Project Gutenberg, Published in 2016, 561 pages
83. [\*\*General Physics II\*\*](#)  
Donald Luttermoser | East Tennessee State University, Published in 2013
84. [\*\*Entropy and Partial Differential Equations\*\*](#)  
Lawrence C. Evans | UC Berkeley, Published in 2003, 213 pages
85. [\*\*The Theory of the Relativity of Motion\*\*](#)  
Richard Chace Tolman | University of California Press, Published in 1917, 275 pages
86. [\*\*An Engineering Guide To Protonjectors\*\*](#)  
Triveni Rao, David H. Dowell | arXiv, Published in 2013, 349 pages
87. [\*\*Advanced Topics in Effective Field Theory\*\*](#)  
Andrew E. Blechman | University of Toronto, Published in 2008, 77 pages
88. [\*\*Thermodynamics and Chemistry\*\*](#)  
Howard DeVoe | , Published in 2011, 531 pages
89. [\*\*An Introduction to Topos Physics\*\*](#)  
Marios Tsatsos | arXiv, Published in 2008, 104 pages
90. [\*\*Computational Thermodynamics\*\*](#)  
Johan Hoffman, Claes Johnson | , Published in 2008, 217 pages
91. [\*\*Practical Physics\*\*](#)  
R. A. Millikan, H. G. Gale, W. R. Pyle | Ginn & Company, Published in 1922, 472 pages
92. [\*\*Noncommutative Geometry, Quantum Fields and Motives\*\*](#)  
Alain Connes, Matilde Marcolli | American Mathematical Society, Published in 2007, 705 pages
93. [\*\*Remodeling Reality: Relativity, Quantum Mechanics, and the Modern Worldview\*\*](#)  
Mike Corwin | Bookboon, Published in 2015, 151 pages
94. [\*\*Interface-Induced Phenomena in Magnetism\*\*](#)  
Frances Hellman, et al. | arXiv, Published in 2016, 193 pages
95. [\*\*Complex Fluids: The Physics of Emulsions\*\*](#)  
M. E. Cates | arXiv, Published in 2012, 43 pages
96. [\*\*Dense Matter in Compact Stars\*\*](#)  
Andreas Schmitt | arXiv, Published in 2010, 146 pages

97. [Quaternions and Clifford Geometric Algebras](#)  
Robert B. Easter | viXra.org, Published in 2015, 187 pages
98. [An Introduction to the Theory of Relativity](#)  
L. Bolton | E.P. Dutton & Co., Published in 1921, 210 pages
99. [The Confrontation between General Relativity and Experiment](#)  
Clifford M. Will | arXiv, Published in 2014, 113 pages
100. [Fluctuation-Dissipation: Response Theory in Statistical Physics](#)  
U.M.B. Marconi, A. Puglisi, L. Rondoni, A. Vulpiani | arXiv, Published in 2008, 148 pages
101. [College Physics for Students of Biology and Chemistry](#)  
Kenneth R. Koehler | Raymond Walters College, Published in 2003, 352 pages
102. [The angular momentum controversy: What's it all about and does it matter?](#)  
E. Leader, C. Lorce | arXiv, Published in 2013, 96 pages
103. [Observers and Splitting Structures in Relativistic Electrodynamics](#)  
Bernhard Auchmann, Stefan Kurz | arXiv, Published in 2014, 93 pages
104. [General Relativity Without Calculus](#)  
Jose Natario | Springer, Published in 2012, 120 pages
105. [Electromagnetic Theory and Computation: A Topological Approach](#)  
Paul W. Gross, P. Robert Kotiuga | Cambridge University Press, Published in 2004, 288 pages
106. [A Window into Zeta and Modular Physics](#)  
Klaus Kirsten, Floyd L. Williams | Cambridge University Press, Published in 2010, 351 pages
107. [Mathematics for Theoretical Physics](#)  
Jean Claude Dutailly | arXiv, Published in 2012, 767 pages
108. [Superconductivity, Superfluids, and Condensates](#)  
James F. Annett | Oxford University Press, Published in 2003, 140 pages
109. [Geometry, Topology and Physics](#)  
Maximilian Kreuzer | Technische Universität Wien, Published in 2010, 69 pages
110. [Quantum Chromodynamics](#)  
Gerhard Ecker | arXiv, Published in 2006, 48 pages
111. [Lectures on Noise Sensitivity and Percolation](#)  
Christophe Garban, Jeffrey E. Steif | arXiv, Published in 2011, 150 pages
112. [A Short Introduction to the Quantum Formalism](#)  
Francois David | arXiv, Published in 2012, 108 pages
113. [Statistical Mechanics](#)  
Eric L. Michelsen | UCSD, Published in 2013, 73 pages
114. [Space: from Euclid to Einstein](#)  
Roy McWeeny | Learning Development Institute, Published in 2011, 66 pages
115. [Accelerator Physics and Technologies for Linear Colliders](#)  
Frank Zimmermann | University of Chicago, Published in 2002, 43 pages
116. [String Theory and Branes](#)  
Neil Lambert | King's College London, Published in 2010, 55 pages
117. [Semi-Simple Lie Algebras and Their Representations](#)  
Robert N. Cahn | The Benjamin/Cummings Publishing, Published in 1984, 164 pages
118. [A Radically Modern Approach to Introductory Physics](#)  
David J. Raymond | , Published in 2008, 465 pages
119. [An Introduction to Non-perturbative String Theory](#)  
Ashoke Sen | arXiv, Published in 1998, 130 pages
120. [Conceptual Physics](#)  
Benjamin Crowell | Lightandmatter.com, Published in 2017, 185 pages
121. [Mathematics for Physics: A Guided Tour for Graduate Students](#)  
Michael Stone, Paul Goldbart | Cambridge University Press, Published in 2009, 919 pages
122. [Photons, Schmotons](#)  
John Baez, Michael Weiss | University of California, Published in 2002, 47 pages
123. [General Relativity Notes](#)  
Edmund Bertschinger | MIT, Published in 1999, 156 pages

124. [Hadronic Atoms in QCD + QED](#)  
J. Gasser, V.E. Lyubovitskij, A. Rusetsky | arXiv.org, Published in 2009, 140 pages
125. [Quirky Quantum Concepts](#)  
Eric L. Michelsen | UCSD, Published in 2013, 151 pages
126. [First Steps Towards a Symplectic Dynamics](#)  
Barney Bramham, Helmut Hofer | arXiv, Published in 2011, 60 pages
127. [Classical Electrodynamics](#)  
Alexander Altland | , , 117 pages
128. [Introduction to Chiral Perturbation Theory](#)  
S. Scherer | arXiv, Published in 2002, 299 pages
129. [Physics with Calculus](#)  
| Wikibooks, Published in 2012
130. [General and Practical Optics](#)  
Lionel Laurence | School of Optics, Published in 1920, 386 pages
131. [Quantum Spin Systems on Infinite Lattices](#)  
Pieter Naaijkens | arXiv, Published in 2013, 90 pages
132. [The Light Cone: an illuminating introduction to relativity](#)  
Rob Salgado | Syracuse University, Published in 2005, 250 pages
133. [Waves](#)  
| Wikibooks, Published in 2012
134. [Computer Tools in Particle Physics](#)  
Avelino Vicente | arXiv, Published in 2015, 60 pages
135. [Introduction to M Theory](#)  
Miao Li | arXiv, Published in 1998, 76 pages
136. [Searching for the Higgs Boson](#)  
D. Rainwater | arXiv, Published in 2007, 81 pages
137. [Optical Physics and Quantum Electronics](#)  
R. Victor Jones | Harvard University, Published in 2000
138. [Lecture Notes in Computational Chemistry: Electronic Structure Theory](#)  
Jurg Hutter | University of Zurich, Published in 2005, 150 pages
139. [Guide to Mathematical Concepts of Quantum Theory](#)  
Teiko Heinosaari, Mario Zinn | arXiv, Published in 2008, 188 pages
140. [Nonequilibrium Relativistic Quantum Many-Body Theory](#)  
Hendrik van Hees | Frankfurt Institute of Advanced Studies, Published in 2013, 149 pages
141. [Special Functions: Fractional Calculus and the Pathway for Entropy](#)  
Hans J. Haubold (ed.) | MDPI AG, Published in 2018, 306 pages
142. [Fundamentals of Nonlinear Optics](#)  
Sergey A. Ponomarenko | Dalhousie University, Published in 2012, 106 pages
143. [Introductory Quantum Theory](#)  
Neil Lambert | King's College London, Published in 2006, 68 pages
144. [Theory of Superconductivity: A Primer](#)  
Helmut Eschrig | IFW Dresden, Published in 2008, 58 pages
145. [Relativity: The Special and General Theory](#)  
Albert Einstein | Methuen & Co Ltd, Published in 1924, 56 pages
146. [Quantum Mechanics: Concepts and Applications](#)  
Tarun Biswas | State University of New York at New Paltz, Published in 2003, 203 pages
147. [Mathematical Concepts of Quantum Mechanics](#)  
S. Gustafson, I.M. Sigal | University of Toronto, Published in 2001, 185 pages
148. [Elements of Astrophysics](#)  
Nick Kaiser | University of Hawaii, Published in 2002, 435 pages
149. [Classical Electrodynamics and Theory of Relativity](#)  
Ruslan Sharipov | Samizdat Press, Published in 2003, 163 pages
150. [Advanced Topics of Theoretical Physics I: The electronic structure of matter](#)  
Peter E. Blöchl | TU Clausthal, Published in 2013, 302 pages

151. [Introduction to Cosmology](#)  
David H Lyth | arXiv, Published in 1993, 53 pages
152. [Classical Electrodynamics](#)  
Robert G. Brown | Duke University Physics Department, Published in 2007, 331 pages
153. [Quantum Field Theory](#)  
A.N. Schellekens | , Published in 1997, 84 pages
154. [Doing Physics with Quaternions](#)  
Douglas B. Sweetser | , Published in 2005, 157 pages
155. [Introduction to Supergravity](#)  
Horatiu Nastase | arXiv, Published in 2012, 152 pages
156. [Cosmology and Astrophysics](#)  
Juan Garcia-Bellido | arXiv.org, Published in 2005, 76 pages
157. [Little Magnetic Book](#)  
Nicolas Raymond | arXiv, Published in 2014, 311 pages
158. [An Introduction to QED and QCD](#)  
N. J. Evans | , Published in 2008, 61 pages
159. [LieART: A Mathematica Application For Lie Algebras and Representation Theory](#)  
Robert Feger, Thomas W. Kephart | arXiv, Published in 2012, 141 pages
160. [A Primer for Black Hole Quantum Physics](#)  
R. Brout, S. Massar, R. Parentani, P. Spindel | arXiv, Published in 2007, 178 pages
161. [Nuclear and Particle Physics](#)  
Niels Walet | UMIST, Published in 2003, 78 pages
162. [Loop Quantum Gravity](#)  
Thomas Thiemann | arXiv, Published in 2006, 58 pages
163. [Albert Einstein: Image and Impact](#)  
| American Institute of Physics, Published in 2004, 122 pages
164. [Computational Physics](#)  
Morten Hjorth-Jensen | University of Oslo, Published in 2007, 444 pages
165. [Introduction to QCD](#)  
Peter Skands | arXiv, Published in 2012, 70 pages
166. [An Introduction to the Mechanics of Fluids](#)  
Edwin H. Barton | Longmans, Green, Published in 1915, 276 pages
167. [Geometrical Optics](#)  
A.S. Percival | Longmans, Green, and Co., Published in 1913, 152 pages
168. [Mechanics for Engineers](#)  
Arthur Morley | Longmans, Published in 1905, 306 pages
169. [Phenomenology from the Lattice](#)  
Stephen R. Sharpe | arXiv.org, Published in 1994, 69 pages
170. [Introduction to General Relativity](#)  
Gerard 't Hooft | Rinton Press, Published in 2010, 69 pages
171. [Noncommutative Geometry](#)  
Alain Connes | Academic Press, Published in 1994, 654 pages
172. [Mechanics of Rigid Body](#)  
Janusz Krodkiewski | , Published in 2008, 195 pages
173. [Algebra-Based College Physics](#)  
Ulrich Zürcher | Bookboon, Published in 2013, 219 pages
174. [General Covariance and the Foundations of General Relativity](#)  
John D Norton | University of Pittsburgh, Published in 1993, 71 pages
175. [Geometry and Group Theory](#)  
Christopher Pope | Texas A&M University, Published in 2008, 181 pages
176. [An Introduction to the Special Theory of Relativity](#)  
Robert Katz | D. Van Nostrand Company, Inc., Published in 1964, 130 pages

177. [Applied Mechanics Dynamics](#)  
G. W. Housner, D. E. Hudson | California Institute of Technology, Published in 1980, 399 pages
178. [Statistical Field Theory](#)  
H.T.C. Stoof | Utrecht University, Published in 2002, 66 pages
179. [Lecture Series in Electronic Structure Theory](#)  
David Sherrill, et al. | Georgia Tech, Published in 2002
180. [Lagrangian Mechanics](#)  
Huseyin Canbolat | InTech, Published in 2017, 174 pages
181. [Mechanics for Beginners](#)  
Isaac Todhunter | Macmillan and co, Published in 1887, 420 pages
182. [Neutrinos and the Stars](#)  
Georg Raffelt | arXiv, Published in 2012, 83 pages
183. [Basic Physics](#)  
| CK-12 Foundation, Published in 2009, 126 pages
184. [An Introduction to the Interacting Boson Model of the Atomic Nucleus](#)  
Walter Pfeifer | arXiv, Published in 2003, 181 pages
185. [Overview of Bohmian Mechanics](#)  
Xavier Oriols, Jordi Mompart | arXiv, Published in 2012, 76 pages
186. [Introduction to Quantum Integrability](#)  
A. Doikou, S. Evangelisti, G. Feverati, N. Karaiskos | arXiv, Published in 2010, 56 pages
187. [Body Physics: Motion to Metabolism](#)  
Lawrence Davis | Open Oregon Educational Resources, Published in 2018, 510 pages
188. [FHSST Physics](#)  
| Wikibooks, Published in 2005, 396 pages
189. [Quantum Gravity](#)  
Rodrigo Sobreiro | InTech, Published in 2012, 100 pages
190. [Thermodynamics and Statistical Mechanics](#)  
S.B. Santra | Indian Institute of Technology Guwahati, Published in 2014, 85 pages
191. [Applied Conformal Field Theory](#)  
Paul Ginsparg | arXiv, Published in 1988, 90 pages
192. [Statistical Physics](#)  
Manfred Sgrist | ETH Zurich, Published in 2014, 130 pages
193. [An elementary treatise on Fourier's series and spherical, cylindrical, and ellipsoidal harmonics](#)  
William Elwood Byerly | Ginn and company, Published in 1893, 509 pages
194. [Operator Algebras and Quantum Statistical Mechanics](#)  
Ola Bratteli, Derek W. Robinson | Springer, Published in 2003, 505 pages
195. [The Secret of Sailing](#)  
Johan Hoffman, Johan Jansson, Claes Johnson | , Published in 2009, 175 pages
196. [Introduction to Quantum Field Theory](#)  
Matthew Schwartz | Harvard University, Published in 2008, 262 pages
197. [Quantum Physics, Relativity, and Complex Spacetime](#)  
Gerald Kaiser | University of Massachusetts at Lowell, Published in 2003, 252 pages
198. [Path Integrals in Quantum Theories: A Pedagogic First Step](#)  
Robert D. Klauber | QuantumFieldTheory.info, Published in 2011
199. [Time in Quantum Mechanics](#)  
Curt A. Moyer | arXiv, Published in 2013, 39 pages
200. [Elementary Applied Mechanics](#)  
A. W. Thomson, T. Alexander | MacMillan, Published in 1916, 544 pages
201. [The Physics and Mathematics of the Second Law of Thermodynamics](#)  
Elliott H. Lieb, Jakob Yngvason | arXiv, Published in 1999, 101 pages
202. [Lectures on the Calculus of Variations](#)  
Oskar Bolza | The University of Chicago press, Published in 1904, 304 pages

203. [Practical Physics](#)  
R. Glazebrook, N. Shaw | Longmans, Published in 1889, 522 pages
204. [Electromagnetism and Optics: An introductory course](#)  
Richard Fitzpatrick | , Published in 2007, 260 pages
205. [The Geometrization of Physics](#)  
Richard S. Palais | University of California at Irvine, Published in 1981, 107 pages
206. [Classical Mechanics](#)  
Robert L. Dewar | The Australian National University, Published in 2001, 109 pages
207. [Advanced Exercises in Practical Physics](#)  
Arthur Schuster | Cambridge University Press, Published in 1901, 392 pages
208. [Exploring the Biofluidynamics of Swimming and Flight](#)  
David Lentink | Wageningen University, Published in 2008, 192 pages
209. [Statistical Mechanics and the Physics of the Many-Particle Model Systems](#)  
A. L. Kuzemsky | arXiv, Published in 2011, 78 pages
210. [Time-related Issues in Statistical Mechanics](#)  
L. S. Schulman | Clarkson University, Published in 2008, 73 pages
211. [Review of Particle Physics 2008](#)  
L. Alvarez-Gaume | Elsevier, Published in 2008, 1340 pages
212. [Lie Groups in Physics](#)  
G. 't Hooft, M. J. G. Veltman | Utrecht University, Published in 2007, 75 pages
213. [Lectures on Diffusion Problems and Partial Differential Equations](#)  
S.R.S. Varadhan | Tata Institute of Fundamental Research, Published in 1989, 324 pages
214. [Lectures on the Geometry of Quantization](#)  
Sean Bates, Alan Weinstein | University of California at Berkeley, Published in 1997, 134 pages
215. [Oulu Space Physics Textbook](#)  
Reijo Rasinkangas | University of Oulu, Published in 2008
216. [Spectral Line Shapes in Plasmas](#)  
Evgeny Stambulchik (ed.) | MDPI AG, Published in 2017, 229 pages
217. [Begin the Adventure: How to Break the Light Barrier by A.D. 2070](#)  
H. B. Tilton, F. Smarandache | Pima Community College Press, Published in 2010, 147 pages
218. [Time Travel: A Brief History](#)  
| Wikipedia, Published in 2014
219. [The Data Analysis Briefbook](#)  
Rudolf K. Bock, Werner Krischer | Springer, Published in 2010
220. [Introduction to Continuum Mechanics for Engineers](#)  
Ray M. Bowen | Springer, Published in 2007, 305 pages
221. [The Sounding Object](#)  
Davide Rocchesso, Federico Fontana | Mondo Estremo Publishing, Published in 2003, 399 pages
222. [Relativity For Physics Students](#)  
G. B. Jeffery | Methuen & Company, Published in 1924, 166 pages
223. [Primordial Nucleosynthesis: from precision cosmology to fundamental physics](#)  
F. Iocco, G. Mangano, G. Miele, O. Pisanti, P.D. Serpico | arXiv, Published in 2009, 148 pages
224. [An Introduction to Universality and Renormalization Group Techniques](#)  
Alessandro Sfondrini | arXiv, Published in 2012, 72 pages
225. [Quantum Mechanics](#)  
Axel Gross | Universität Ulm, Published in 2008, 166 pages
226. [Lectures on Supersymmetry](#)  
Ivo Sachs | Trinity College Dublin, Published in 2004, 53 pages
227. [Neutrino Physics Overview](#)  
J. W. F. Valle | arXiv, Published in 2006, 43 pages
228. [An Introduction to Theoretical Fluid Dynamics](#)  
Stephen Childress | New York University, Published in 2008, 177 pages

229. [Selected Topics in Applications of Quantum Mechanics](#)  
 Mohammad Reza Pahlavani (ed.) | InTech, Published in 2015, 466 pages
230. [Elementary Dynamics: a textbook for engineers](#)  
 Joseph Whittington Landon | Cambridge University Press, Published in 1920, 268 pages
231. [Quantum Field Theory](#)  
 Mark Srednicki | Cambridge University Press, Published in 2007, 616 pages
232. [Optical Properties of Semiconductors](#)  
 Jerome Faist | Eidgenossische Technische Hochschule Zurich, Published in 2008, 115 pages
233. [Unification in One Dimension](#)  
 David J. Jackson | arXiv, Published in 2016, 498 pages
234. [Statistical Physics II](#)  
 Eric Poisson | University of Guelph, Published in 2009, 113 pages
235. [Applications of the Calculus to Mechanics](#)  
 E.R. Hedrick, O.D. Kellogg | Ginn and company, Published in 1909, 140 pages
236. [An Introduction to Cosmic Rays and Gamma-Ray Bursts](#)  
 A. De Rujula | arXiv, Published in 2007, 37 pages
237. [Physics of Soft Matter](#)  
 Primoz Zihelr | University of Ljubljana, Published in 2014, 128 pages
238. [Light-Matter Interactions and Quantum Optics](#)  
 Jonathan Keeling | University of St. Andrews, Published in 2012, 131 pages
239. [The Open Agenda: Ideas a beginning physics teacher should not take for granted](#)  
 John Daicopoulos | RenegadeScience.com, Published in 2009, 114 pages
240. [Applications of chiral perturbation theory to lattice QCD](#)  
 Maarten Golterman | arXiv, Published in 2010, 83 pages
241. [Introduction to Computational Quantum Mechanics](#)  
 Roman Schmied | arXiv, Published in 2014, 124 pages
242. [Introduction to Analytical Mechanics](#)  
 Alexander Ziwet | Macmillan, Published in 1912, 412 pages
243. [The Place of Partial Differential Equations in Mathematical Physics](#)  
 Ganesh Prasad | Patna University, Published in 1924, 64 pages
244. [N-body Problem](#)  
 André-Marie Tremblay | , Published in 2011, 444 pages
245. [Neutrosophic Physics: More Problems, More Solutions](#)  
 F. Smarandache | North-European Scientific Publishers, Published in 2010, 96 pages
246. [Quantum Theory at the Crossroads](#)  
 Guido Bacciagallo, Antony Valentini | Cambridge University Press, Published in 2009, 553 pages
247. [Physics for Technical Students](#)  
 William Ballantyne Anderson | McGraw-Hill, Published in 1914, 376 pages
248. [Elementary Particles in Physics](#)  
 S. Gasiorowicz, P. Langacker | University of Pennsylvania, Published in 2005, 48 pages
249. [The Physics of Waves](#)  
 Howard Georgi | Prentice Hall, Published in 2007, 465 pages
250. [The Geometry of Special Relativity](#)  
 Tevian Dray | Oregon State University, Published in 2012, 146 pages
251. [Relativistic Quantum Dynamics](#)  
 Eugene V. Stefanovich | , Published in 2008, 689 pages
252. [Advanced Topics of Theoretical Physics II: The statistical properties of matter](#)  
 Peter E. Blöchl | TU Clausthal, Published in 2014, 182 pages
253. [An Elementary Introduction to Loop Quantum Gravity](#)  
 Norbert Bodendorfer | arXiv, Published in 2016, 62 pages
254. [Introduction to Supersymmetry](#)  
 Adel Bilal | arXiv, Published in 2001, 83 pages

255. [Thermodynamic Limit in Statistical Physics](#)  
A. L. Kuzemsky | arXiv, Published in 2014, 29 pages
256. [Lectures on Classical Mechanics](#)  
John C. Baez | University of California, Published in 2005, 76 pages
257. [Britney Spears' Guide to Semiconductor Physics](#)  
Carl Hepburn | , Published in 2009
258. [Laboratory projects in physics: a manual of practical experiments for beginners](#)  
Frederick Foreman Good | The Macmillan Company, Published in 1921, 300 pages
259. [What is Motion](#)  
Boris Dmitriev | QuantaOfMotion.com, Published in 2010, 115 pages
260. [Feynman Diagrams and Differential Equations](#)  
Mario Argeri, Pierpaolo Mastrolia | arXiv, Published in 2007, 56 pages
261. [Photonic Crystals](#)  
Alireza Bananej (ed.) | InTech, Published in 2015, 178 pages
262. [Radiation Oncology Physics: A Handbook for Teachers And Students](#)  
E. B. Podgorsak (ed.) | International Atomic Energy Agency, Published in 2005, 696 pages
263. [Applied Gyrodynamics](#)  
Ervin S. Ferry | John Wiley & Sons, Published in 1933, 309 pages
264. [Heisenberg: Uncertainty](#)  
David C. Cassidy | American Institute of Physics, Published in 2002
265. [Non-locality and Possible World](#)  
Tomasz F. Bigaj | De Gruyter Open, Published in 2013, 286 pages
266. [Topics in Dynamics I: Flows](#)  
Edward Nelson | Princeton University Press, Published in 1969, 122 pages
267. [The Theory of Electrons and its Applications to the Phenomena of Light](#)  
H. A. Lorentz | B.G. Teubner, Published in 1916, 300 pages
268. [Solitons](#)  
David Tong | University of Cambridge, Published in 2005, 140 pages
269. [Theoretical Kinematics](#)  
Oene Bottema, Bernard Roth | Dover Publications, Published in 1990, 558 pages
270. [Lawrence and His Laboratory: A History of the Lawrence Berkeley Laboratory](#)  
J. L. Heilbron, Robert W. Sidel | University of California Press, Published in 1989, 586 pages
271. [Computational Physics with Python](#)  
Mark Newman | University of Michigan, Published in 2012
272. [Introduction to Supergravity](#)  
Henning Samtleben | Leibniz Universität, Published in 2007, 29 pages
273. [D-Branes, Tachyons, and String Field Theory](#)  
Washington Taylor, Barton Zwiebach | arXiv, Published in 2004, 104 pages
274. [Magnetic Fields and Magnetic Diagnostics for Tokamak Plasmas](#)  
Alan Wootton | , Published in 2008, 166 pages
275. [Fundamentals of Plasma Physics](#)  
James D. Callen | University of Wisconsin,, Published in 2006
276. [The Cellular Automaton Interpretation of Quantum Mechanics](#)  
Gerard 't Hooft | Springer, Published in 2016, 296 pages
277. [Continuum Mechanics](#)  
Zdenek Martinec | Charles University in Prague, Published in 2011, 179 pages
278. [Lattice Perturbation Theory](#)  
Stefano Capitani | arXiv.org, Published in 2002, 221 pages
279. [Collider Physics within the Standard Model: a Primer](#)  
Guido Altarelli | arXiv, Published in 2013, 163 pages
280. [Physics Searches at the LHC](#)  
David E. Morrissey, Tilman Plehn, Tim M.P. Tait | arXiv, Published in 2010, 184 pages
281. [A Primer on Quantum Mechanics and Its Interpretations](#)  
Casey Blood | arXiv, Published in 2010, 55 pages

282. [Decoherence: Basic Concepts and Their Interpretation](#)  
H. D. Zeh | arXiv, Published in 2002, 42 pages
283. [VLHC Accelerator Physics](#)  
M. Blaskiewicz, et al. | , Published in 2001, 116 pages
284. [Theoretical Nuclear Physics](#)  
John M. Blatt, Victor F. Weisskopf | Wiley, Published in 1952, 864 pages
285. [Introduction to Statistical Theory of Fluid Turbulence](#)  
Mahendra K. Verma | arXiv, Published in 2005, 40 pages
286. [Computational Fluid Dynamics](#)  
Hyoungh Woo Oh | InTech, Published in 2010, 428 pages
287. [Mathematical Methods in Quantum Mechanics](#)  
Gerald Teschl | American Mathematical Society, Published in 2009, 317 pages
288. [Heat and Thermodynamics](#)  
J. B. Tatum | , Published in 2008
289. [Classical and Quantum Mechanics via Lie algebras](#)  
Arnold Neumaier, Dennis Westra | arXiv, Published in 2011, 503 pages
290. [The Fundamentals of Density Functional Theory](#)  
Helmut Eschrig | University of Technology Dresden, Published in 2013, 224 pages
291. [Simulations of Quantum Many Body Systems](#)  
Mark Jarrell | Louisiana State University, Published in 2011
292. [Cosmology for Particle Physicists](#)  
U. A. Yajnik | arXiv, Published in 2008, 63 pages
293. [Fusion Physics](#)  
| International Atomic Energy Agency, Published in 2012, 1158 pages
294. [Topological Strings and their Physical Applications](#)  
Andrew Neitzke, Cumrun Vafa | arXiv, Published in 2005, 82 pages
295. [21st Century Physics Flexbook](#)  
Mark Clemente, et al | CK-12 Foundation, Published in 2009, 225 pages
296. [Funky Electromagnetic Concepts](#)  
Eric L. Michelsen | UCSD, Published in 2012, 72 pages
297. [Effective Action Approach to Quantum Field Theory](#)  
Ivan G. Avramidi | New Mexico Institute of Mining and Technology, Published in 2001, 90 pages
298. [Relativistic Quark Physics](#)  
Johann Rafelski | arXiv.org, Published in 1998, 50 pages
299. [Advances in Lasers and Electric Optics](#)  
Nelson Costa, Adolfo Cartaxo | InTech, Published in 2010, 858 pages
300. [Applications of global analysis in mathematical physics](#)  
Jerrold E. Marsden | Publish or Perish, Inc, Published in 1974, 277 pages
301. [Atmospheric Convection](#)  
David J. Raymond | New Mexico Tech, Published in 2009, 224 pages
302. [Invariance Theory, the Heat Equation and the Atiyah-Singer Index Theorem](#)  
Peter B. Gilkey | Publish or Perish Inc., Published in 1984, 536 pages
303. [Statistical Mechanics](#)  
Daniel F. Styer | Oberlin College, Published in 2007, 247 pages
304. [Introduction to Modern Canonical Quantum General Relativity](#)  
Thomas Thiemann | arXiv, Published in 2001, 303 pages
305. [Quantum Walks](#)  
Daniel Reitzner, Daniel Nagaj, Vladimir Buzek | arXiv, Published in 2012, 124 pages
306. [Space, Time and Gravitation: An Outline of the General Relativity Theory](#)  
Arthur Stanley Eddington | Cambridge University Press, Published in 1920, 219 pages
307. [Introduction to relativistic astrophysics and cosmology through Maple](#)  
V. L. Kalashnikov | arXiv, Published in 2001, 124 pages

308. [An Introduction to Lagrangian and Hamiltonian Mechanics](#)  
Simon J.A. Malham | Heriot-Watt University, Published in 2016, 87 pages
309. [Introduction To Sound Processing](#)  
Davide Rocchesso | Davide Rocchesso, Published in 2003, 236 pages
310. [The Theory of Rotating Fluids](#)  
Harvey Philip Greenspan | Breukelen Press, Published in 1990, 352 pages
311. [Modern Physics](#)  
| Wikibooks, Published in 2011, 230 pages
312. [Text-Book of General Physics](#)  
Joseph Sweetman Ames | Amer. Bk. Co, Published in 1904, 780 pages
313. [Variational Principles in Classical Mechanics](#)  
Douglas Cline | River Campus Libraries, Published in 2017, 587 pages
314. [Quantum Optics and Nonlinear Optics](#)  
Karl-Peter Marzlin | University of Calgary, Published in 2007, 209 pages
315. [Statistical Physics I](#)  
Eric Poisson | University of Guelph, Published in 2000, 97 pages
316. [Path Integral Methods and Applications](#)  
Richard MacKenzie | arXiv, Published in 2000, 55 pages
317. [Andrei Sakharov: Soviet Physics, Nuclear Weapons, and Human Rights](#)  
Gennady Gorelik | American Institute of Physics, Published in 2005
318. [Introduction to Non-Baryonic Dark Matter](#)  
Paolo Gondolo | arXiv, Published in 2004, 51 pages
319. [Thermodynamics](#)  
George Hartley Bryan | Teubner, Published in 1907, 232 pages
320. [High-Temperature Superconductivity in Perspective](#)  
| U.S. Government Printing Office, Published in 1977, 129 pages
321. [Newton's Principia: the mathematical principles of natural philosophy](#)  
Isaac Newton | Daniel Adee, Published in 1846, 600 pages
322. [Mathematical Foundations of Quantum Mechanics](#)  
Valter Moretti | arXiv, Published in 2015, 201 pages
323. [Theoretical Mechanics](#)  
Paul Lammert | , Published in 2009, 178 pages
324. [Lecture Notes on Nonlinear Optics](#)  
Fredrik Jonsson | , Published in 2003, 168 pages
325. [Introduction to Symplectic Field Theory](#)  
Y. Eliashberg, A. Givental, H. Hofer | arXiv, Published in 2000, 102 pages
326. [Treatise on Thermodynamics](#)  
Max Planck | Longmans, Green, Published in 1909, 302 pages
327. [Thermodynamics and Statistical Mechanics of Small Systems](#)  
A. Puglisi, A. Sarracino, A. Vulpiani (eds) | MDPI AG, Published in 2018, 336 pages
328. [Quantum Field Theory on Noncommutative Spaces](#)  
Richard J. Szabo | arXiv, Published in 2003, 111 pages
329. [Easy Lessons in Einstein](#)  
Edwin Emery Slosson | Brace and Howe, Published in 1920, 152 pages
330. [Quantum Condensed Matter Physics](#)  
Chetan Nayak | University of California, Published in 2004, 480 pages
331. [Statistical Physics](#)  
Yuri Galperin, Jens Feder | University of Oslo, Published in 2008, 187 pages
332. [General Physics: An Elementary Text-Book for Colleges](#)  
Henry Crew | MacMillan, Published in 1908, 548 pages
333. [Lagrangian Solid Modeling](#)  
Matthew Marko | viXra, Published in 2017, 114 pages
334. [Quantum Transport in Semiconductor Nanostructures](#)  
C.W.J. Beenakker, H. van Houten | arXiv, Published in 2004, 111 pages

335. [Spacetime algebra as a powerful tool for electromagnetism](#)  
Justin Dressel, Konstantin Y. Bliokh, Franco Nori | arXiv, Published in 2014, 118 pages
336. [Mathematical Tools of Quantum Mechanics](#)  
Gianfausto Dell'Antonio | Sissa, Trieste, Published in 2012
337. [Scientific Computing](#)  
Jeffrey R. Chasnov | Harvey Mudd College, Published in 2013, 152 pages
338. [Nuclear Science: A Teachers Guide to the Nuclear Science Wall Chart](#)  
Howard Matis | CPEP, Published in 2003
339. [A Pedestrian Introduction to the Mathematical Concepts of Quantum Physics](#)  
Jan Govaerts | arXiv, Published in 2008, 79 pages
340. [Mechanics](#)  
William Fogg Osgood | The MacMillan Company, Published in 1937, 494 pages
341. [An Introduction into the Feynman Path Integral](#)  
Christian Grosche | arXiv, Published in 1993, 94 pages
342. [Electric and Magnetic Aspects of Gravitational Theories](#)  
Francois Dehouck | arXiv, Published in 2011, 240 pages
343. [The Experimental Status of Special and General Relativity](#)  
Orfeu Bertolami, Jorge Paramos | arXiv, Published in 2012, 36 pages
344. [Classical Field Theory](#)  
Gleb Arutyunov | Utrecht University, Published in 2011, 158 pages
345. [Electronic Structure Methods](#)  
| Wikipedia, Published in 2014
346. [Introduction to Mathematical Physics](#)  
Alex Madon | Wikibooks, Published in 2010
347. [Manifesting the Quantum World](#)  
Ulrich Mohrhoff | arXiv, Published in 2014, 50 pages
348. [Introduction to Computational Physics](#)  
Franz J. Vesely | University of Vienna, Published in 2006
349. [Three Lectures on Complexity and Black Holes](#)  
Leonard Susskind | arXiv.org, Published in 2018, 84 pages
350. [Light and Matter](#)  
Benjamin Crowell | , Published in 2011, 900 pages
351. [Elementary Mechanics from a Mathematician's Viewpoint](#)  
Michael Spivak | University of Georgia, Published in 2004, 167 pages
352. [Boulevard of Broken Symmetries](#)  
Adriaan M.J. Schakel | arXiv, Published in 1998, 158 pages
353. [D-Brane Primer](#)  
Clifford V. Johnson | arXiv, Published in 2000, 222 pages
354. [Special Relativity](#)  
| Wikibooks, Published in 2008, 91 pages
355. [An Introduction to Black Holes, Information and the String Theory Revolution](#)  
Leonard Susskind, James Lindesay | OECD Publishing, Published in 2005, 183 pages
356. [Geometry of Quantum Mechanics](#)  
Ingemar Bengtsson | Stockholms universitet, Fysikum, Published in 1998, 118 pages
357. [Careers in Atomic Energy](#)  
Loyce McIlhenny | US Atomic Energy Commission, Published in 1964
358. [Holographic Quantum Matter](#)  
S. A. Hartnoll, A. Lucas, S. Sachdev | arXiv.org, Published in 2018, 178 pages
359. [Lecture Notes on Classical Mechanics](#)  
Daniel Arovas | University of California, San Diego, Published in 2013, 453 pages
360. [Microfluidics](#)  
Philippe Marmottant | Wikibooks, Published in 2010
361. [The Special Theory of Relativity](#)  
J D Cresser | Macquarie University, Published in 2003, 44 pages

362. [Geometry in Physics](#)  
Alexander Altland | , Published in 2010, 79 pages
363. [String Theory and the Path to Unification](#)  
Keith R. Dienes | arXiv, Published in 1997, 104 pages
364. [Applications of High-Tc Superconductivity](#)  
Adir Luiz | InTech, Published in 2011, 260 pages
365. [Elements of Quaternions](#)  
Arthur Sherburne Hardy | Ginn, Heath, & co., Published in 1881, 252 pages
366. [Topological Field Theory](#)  
Graeme Segal | Duke University, Published in 1999, 43 pages
367. [Phases and Phase Transitions in Disordered Quantum Systems](#)  
Thomas Vojta | arXiv, Published in 2013, 60 pages
368. [Essential Electromagnetism](#)  
Raymond John Protheroe | Bookboon, Published in 2013, 165 pages
369. [Introduction to Soft-Collinear Effective Theory](#)  
Thomas Becher, Alessandro Broggio, Andrea Ferroglia | arXiv, Published in 2014, 166 pages
370. [The Age of Einstein](#)  
Frank W. K. Firk | Yale University, Published in 2003, 79 pages
371. [The Basics of NMR](#)  
Joseph P. Hornak | Rochester Institute of Technology, Published in 1999
372. [The Path Integral Approach to Quantum Mechanics](#)  
Matthias Blau | , Published in 2006, 55 pages
373. [Yang Mills model of interacting particles in the classical field theory](#)  
Jean Claude Dutailly | arXiv, Published in 2011, 187 pages
374. [Quantum Theory, Groups and Representations: An Introduction](#)  
Peter Woit | Columbia University, Published in 2004, 396 pages
375. [An Introduction to Quantum Gravity](#)  
Bryce S. DeWitt, Giampiero Esposito | arXiv, Published in 2007, 68 pages
376. [Theoretical Physics III: Quantum Theory](#)  
Peter E. Blöchl | TU Clausthal, Published in 2013, 354 pages
377. [Lectures on Three-Dimensional Elasticity](#)  
P. G. Ciarlet | Tata Institute of Fundamental Research, Published in 1983, 135 pages
378. [The Path Integral Approach to Quantum Mechanics](#)  
Riccardo Rattazzi | LPFL, Published in 2009, 110 pages
379. [Plasma Physics](#)  
Richard Fitzpatrick | The University of Texas at Austin, Published in 2008, 242 pages
380. [Quantum Physics](#)  
James G. Branson | UCSB, Published in 2008, 353 pages
381. [Vector Analysis and the Theory of Relativity](#)  
Francis Dominic Murnaghan | Johns Hopkins press, Published in 1922, 156 pages
382. [Do we really understand quantum mechanics?](#)  
F. Laloe | Zuckschwerdt Publishers, Published in 2001, 117 pages
383. [Molecular Dynamics Simulation](#)  
Giovanni Ciccotti, Mauro Ferrario, Christof Schuette | MDPI AG, Published in 2014, 628 pages
384. [Advances in Photonic Crystals](#)  
Vittorio M.N. Passaro (ed.) | InTech, Published in 2013, 340 pages
385. [The Thermodynamics of Light](#)  
Per Kristen Jakobsen | arXiv.org, Published in 2018, 60 pages
386. [Hadronic Matter](#)  
| Wikipedia, Published in 2014
387. [NetWorld!: What People are Really Doing on the Internet](#)  
David H. Rothman | Prima Communications, Published in 1996, 352 pages

388. [AdS/CFT Duality User Guide](#)  
Makoto Natsuume | arXiv, Published in 2014, 279 pages
389. [Relativity Without Tears](#)  
Z. K. Silagadze | arXiv, Published in 2007, 78 pages
390. [Multi-messenger Astronomy and Dark Matter](#)  
Las Bergstrom | arXiv, Published in 2012, 105 pages
391. [Einstein for Everyone](#)  
John D. Norton | Nullarbor Press, Published in 2008
392. [A Mathematics Primer for Physics Graduate Students](#)  
Andrew E. Blechman | , Published in 2007, 78 pages
393. [An Introduction to Relativistic Quantum Mechanics](#)  
M. De Sanctis | arXiv, Published in 2007, 53 pages
394. [Geometry and Topology in Electronic Structure Theory](#)  
Raffaele Resta | University of Trieste, Published in 2012, 83 pages
395. [String Theory: a perspective over the last 25 years](#)  
Sunil Mukhi | arXiv, Published in 2011, 45 pages
396. [A solution manual for Patchinski's](#)  
Matthew Headrick | arXiv, Published in 2008, 115 pages
397. [Endless Amusement](#)  
| Lea and Blanchard, Published in 1847, 211 pages
398. [Statistical Mechanics of Nonequilibrium Liquids](#)  
Denis J. Evans, Gary P. Morriss | ANU Press, Published in 2007, 318 pages
399. [Engineering Acoustics](#)  
| Wikibooks, Published in 2006, 205 pages
400. [Molecular Physics](#)  
Wim Ubachs | Vrije Universiteit Amsterdam, Published in 2004, 72 pages
401. [Introduction to Statics and Dynamics](#)  
Rudra Pratap, Andy Ruina | Cornell University, Published in 2009, 1005 pages
402. [Solid State Theory](#)  
Manfred Sigrist | ETH Zurich, Published in 2014, 165 pages
403. [Quantization is a Mystery](#)  
Ivan Todorov | arXiv, Published in 2012, 51 pages
404. [Statistical Thermodynamics and Rate Theories](#)  
| Wikibooks, Published in 2018, 124 pages
405. [Quantum Dissipative Systems](#)  
F. Guinea, E. Bascones, M.J. Calderon | , Published in 1998, 81 pages
406. [Hadron Models and related New Energy Issues](#)  
F. Smarandache, V. Christianto | InfoLearnQuest, Published in 2007, 476 pages
407. [Lecture Notes on General Relativity](#)  
Sean M. Carroll | University of California, Published in 1997, 238 pages
408. [The New Physics and Its Evolution](#)  
Lucien Poincare | D. Appleton and Company, Published in 1909
409. [Life, the Universe and Everything: 42 Fundamental Questions](#)  
Roland E. Allen, Suzy Lidstrom | arXiv.org, Published in 2018, 54 pages
410. [Quantum Chromodynamics](#)  
A. Pich | arXiv, Published in 1995, 51 pages
411. [Introduction to Plasma Physics](#)  
John Howard | Australian National University, Published in 2002, 216 pages
412. [Electricity and Magnetism](#)  
J. B. Tatum | , Published in 2007
413. [Essential Physics 1](#)  
Frank W. K. Firk | Archive.org, Published in 2000, 210 pages
414. [Geometry of 2D Topological Field Theories](#)  
Boris Dubrovin | arXiv, Published in 1994, 204 pages

415. [Selected Chapters in the Calculus of Variations](#)  
Jürgen Moser | Birkhäuser, Published in 2003, 140 pages
416. [Lectures on the Quantum Hall Effect](#)  
David Tong | University of Cambridge, Published in 2016, 234 pages
417. [Elements of Early Modern Physics](#)  
J. L. Heilbron | University of California Press, Published in 1982, 301 pages
418. [Lectures on Integrable Hamiltonian Systems](#)  
G.Sardanashvily | arXiv, Published in 2013, 127 pages
419. [An Introduction to Monte Carlo Simulations in Statistical Physics](#)  
K. P. N. Murthy | arXiv, Published in 2003, 92 pages
420. [Statistical Physics](#)  
David Tong | University of Cambridge, Published in 2012, 179 pages
421. [Introduction to superfluidity: Field-theoretical approach and applications](#)  
Andreas Schmitt | Springer, Published in 2014, 150 pages
422. [Understanding Physics](#)  
Faraz Hussain | UnderstandingPhysics.org, Published in 2011, 159 pages
423. [Pure State Quantum Statistical Mechanics](#)  
Christian Gogolin | arXiv, Published in 2010, 84 pages
424. [Memories of a Theoretical Physicist](#)  
Joseph Polchinski | arXiv.org, Published in 2017, 151 pages
425. [ABE Advanced Level Physics](#)  
Tom McBee | OpenStax College, Published in 2013
426. [Bayesian Field Theory](#)  
J. C. Lemm | arXiv.org, Published in 2000, 201 pages
427. [Solid State Theory](#)  
Johannes Roth | Universität Stuttgart, Published in 2009, 215 pages
428. [Quantum Field Theory I](#)  
Ling-Fong Li | National Tsing Hua University, Published in 2010
429. [Essentials of Nanotechnology](#)  
Jeremy Ramsden | BookBoon, Published in 2009, 126 pages
430. [Introduction to Mechanics and Symmetry](#)  
Jerrold E. Marsden, Tudor S. Ratiu | Springer, Published in 1998, 549 pages
431. [The basic paradoxes of statistical classical physics and quantum mechanics](#)  
Oleg Kupervasser | arXiv, Published in 2009, 180 pages
432. [Classical and Modern Optics](#)  
Daniel A. Steck | University of Oregon, Published in 2010, 276 pages
433. [Playing with Marbles: Structural and Thermodynamic Properties of Hard-Sphere Systems](#)  
Andrés Santos | arXiv, Published in 2013, 92 pages
434. [Hydrodynamics](#)  
Horace Lamb | Cambridge University Press, Published in 1895, 636 pages
435. [The Theory of General Relativity and Gravitation](#)  
Ludwik Silberstein | D. Van Nostrand, Published in 1922, 160 pages
436. [Theoretical Physics Reference](#)  
Ondřej Čertík | Theoretical-Physics.net, Published in 2011, 448 pages
437. [Variational Analysis](#)  
R. Tyrrell Rockafellar, Roger J-B Wets | Springer, Published in 2009, 743 pages
438. [Introduction to Monte Carlo Methods](#)  
Stefan Weinzierl | arXiv, Published in 2000, 47 pages
439. [Photonic Crystals: Molding the Flow of Light](#)  
John D. Joannopoulos, et al. | Princeton University Press, Published in 2008, 305 pages
440. [Theory of Fast Electron Transport for Fast Ignition](#)  
A.P.L. Robinson, et al. | arXiv, Published in 2013, 78 pages

441. [Foundations of Mechanics, Second Edition](#)  
Ralph Abraham, Jerrold E. Marsden | Addison-Wesley, Published in 1987, 826 pages
442. [Atomic and Molecular Physics](#)  
Tom Kirchner | York University, Published in 2011, 67 pages
443. [Particles of the Standard Model](#)  
| Wikipedia, Published in 2014
444. [Dynamics and Relativity](#)  
David Tong | University of Cambridge, Published in 2012, 154 pages
445. [Lecture Notes in Statistical Mechanics](#)  
Igor Vilfan | The J. Stefan Institute, Published in 2002, 137 pages
446. [Study notes for Statistical Physics](#)  
W. David McComb | Bookboon, Published in 2015, 116 pages
447. [Advances in Quantum Field Theory](#)  
Sergey Ketov | InTech, Published in 2012, 230 pages
448. [Experimental Elasticity: A Manual for the Laboratory](#)  
G.F.C. Searle | Cambridge University Press, Published in 1908, 220 pages
449. [Quantum Models of Classical World](#)  
Petr Hajicek | arXiv, Published in 2013, 175 pages
450. [The Spin Foam Approach to Quantum Gravity](#)  
Alejandro Perez | arXiv, Published in 2012, 121 pages
451. [Step-by-Step BSc to PhD Math/Physics](#)  
Alex Alaniz | UC Riverside, Published in 2011, 323 pages
452. [Plasmonics](#)  
Tatjana Gric (ed.) | InTech, Published in 2018, 235 pages
453. [Open Systems, Entanglement and Quantum Optics](#)  
Andrzej Jamiolkowski (ed.) | InTech, Published in 2013, 138 pages
454. [Understanding Quantum Measurement from the Solution of Dynamical Models](#)  
A.E. Allahverdyan, R. Balian, T.M. Nieuwenhuizen | arXiv, Published in 2012, 187 pages
455. [Differential Geometry in Physics](#)  
Gabriel Lugo | University of North Carolina at Wilmington, Published in 2006, 61 pages
456. [Introduction to Nanoscience and Nanotechnology](#)  
M. Kuno | , Published in 2004, 246 pages
457. [Enrico Fermi: The Master Scientist](#)  
Jay Orear | Cornell University, Published in 2004, 171 pages
458. [Modern Computational Methods in Solids](#)  
Adrian Feiguin | University of Wyoming, Published in 2009, 99 pages
459. [Molecular Electronic Structures: an introduction](#)  
Carl J. Ballhausen, Harry B. Gray | Benjamin-Cummings Publishing Co., Published in 1980, 139 pages
460. [Lecture Notes on Thermodynamics](#)  
Joseph M. Powers | University of Notre Dame, Published in 2010, 359 pages
461. [Introduction to Nonequilibrium Statistical Mechanics with Quantum Field](#)  
Takafumi Kita | arXiv, Published in 2010, 78 pages
462. [An Introduction to Symmetric Spaces](#)  
Ulrika Magnea | arXiv, Published in 2002, 66 pages
463. [Surface Waves](#)  
John V. Wehausen, Edmund V. Laitone | Springer, Published in 1960, 360 pages
464. [Non-Equilibrium Statistical Mechanics](#)  
Gunnar Pruessner | Imperial College London, Published in 2011, 51 pages
465. [Introduction to Electromagnetic Theory and the Physics of Conducting Solids](#)  
C. J. Papachristou | Hellenic Naval Academy, Published in 2017, 221 pages
466. [An Introduction to Plasma Physics](#)  
Alan Wootton | Institute for High Energy Density Science, Published in 1997

467. [Lecture Notes on Topological Field Theory](#)  
Jian Qiu | arXiv, Published in 2012, 64 pages
468. [A Strict Epistemic Approach to Physics](#)  
Per Östborn | arXiv, Published in 2016, 543 pages
469. [Theoretical Physics IV: Statistical Physics](#)  
Peter E. Blöchl | Clausthal University of Technology, Published in 2013, 271 pages
470. [Inflation and String Theory](#)  
Daniel Baumann, Liam McAllister | arXiv, Published in 2014, 349 pages
471. [Particle Physics and Inflationary Cosmology](#)  
Andrei Linde | arXiv, Published in 2005, 270 pages
472. [The Landscape of Theoretical Physics](#)  
Matej Pavsic | arXiv, Published in 2006, 386 pages
473. [An Introduction to Physics](#)  
P.J. Haler | Library Press, Published in 1921, 252 pages
474. [Kac-Moody Algebras in M-theory](#)  
Sophie de Buyl | arXiv.org, Published in 2006, 232 pages
475. [Acoustics And Architecture](#)  
Paul E. Sabine | McGraw-Hill, Published in 1932, 358 pages
476. [Black-Hole Phenomenology](#)  
Neven Bilic | arXiv, Published in 2006, 58 pages
477. [Theory of Special Relativity](#)  
Nadia L. Zakamska | arXiv, Published in 2015, 98 pages
478. [Introduction to Electronic Structure Methods](#)  
Ursula Röthlisberger, Ivano Tavernelli | EPFL, Published in 2011, 118 pages
479. [Schwarzschild and Kerr Solutions of Einstein's Field Equation: an introduction](#)  
Christian Heinicke, Friedrich W. Hehl | arXiv, Published in 2015, 96 pages
480. [Tensor Techniques in Physics: a concise introduction](#)  
Roy McWeeny | Learning Development Institute, Published in 2011, 30 pages
481. [Optics](#)  
P. Ewart | University of Oxford, Published in 2007, 64 pages
482. [Thermodynamics: Fundamentals and Its Application in Science](#)  
Ricardo Morales-Rodriguez (ed.) | InDeh, Published in 2012, 542 pages
483. [A History of the Progress of the Calculus of Variations during the Nineteenth Century](#)  
Isaac Todhunter | Adamant Media Corporation, Published in 2003, 549 pages
484. [New Paths Towards Quantum Gravity](#)  
B. Booss-Bavnbek, G. Esposito, M. Lesch | Springer, Published in 2010, 380 pages
485. [Theoretical Physics](#)  
A. S. Kompaneyets | Foreign Languages Publishing House, Published in 1961, 590 pages
486. [Classical Mechanics](#)  
Jeremy Heyl | The University of British Columbia, Published in 2007, 264 pages
487. [A Course in Graduate Electrodynamics](#)  
Mark Jarrell | Louisiana State University, Published in 2000
488. [Big Bang Nucleosynthesis and Physics Beyond the Standard Model](#)  
Subir Sarkar | arXiv, Published in 1996, 156 pages
489. [The Theory of Sound, Volume One](#)  
J. W. S. Rayleigh | MacMillan, Published in 1894, 500 pages
490. [Modern Statistical Mechanics](#)  
Paul Fendley | The University of Virginia, Published in 2014, 98 pages
491. [Introduction to Relativistic Transport Theory](#)  
Hendrik van Hees | Johann Wolfgang Goethe-Universitaet, Published in 2015, 52 pages
492. [Fundamentals of Compressible Fluid Mechanics](#)  
Genick Bar-Meir | , Published in 2008, 376 pages
493. [Conformal Field Theory, Tensor Categories and Operator Algebras](#)  
Yasuyuki Kawahigashi | arXiv, Published in 2015, 66 pages

494. [Combinatorial Geometry with Application to Field Theory](#)  
Linfan Mao | InfoQuest, Published in 2009, 499 pages
495. [Introduction to Groups, Invariants and Particles](#)  
Frank W. K. Firk | Orange Grove Texts Plus, Published in 2000, 162 pages
496. [Quantum Notes](#)  
Jed Rembold | New Mexico Tech, Published in 2009, 239 pages
497. [Lagrangian Mechanics, Dynamics, and Control](#)  
Andrew D. Lewis | Queen's University, Published in 2004, 271 pages
498. [Elementary Particle Physics](#)  
Paolo Franzini | University of Rome, Published in 2009, 284 pages
499. [Electronic Structure Theory](#)  
Patrick Rinke | Fritz Haber Institute, Published in 2014, 63 pages
500. [Handbook of Perturbative QCD](#)  
George Sterman, et al. | CTEQ, Published in 2001, 194 pages

