

List of Books

Below you will find the list of books transitioned to Open Access with a link to the PDF hosted in the SCOAP3 Repository. The books will be also available via the [INIS Repository](#), [OAPEN](#), and on the respective publisher websites. Please note that this list will be continuously expanded as books become available OA

No.	Title	Author(s)	Publisher	OAPEN URI
1	A Course in Field Theory	Van Baal P.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50887
2	A Modern Introduction to Particle Physics. 3rd Edition	Fayyazuddin and Riazuddin	World Scientific	https://library.oapen.org/handle/20.500.12657/53580
3	Accelerator Physics. 4th Edition	Lee, SY.	World Scientific	https://library.oapen.org/handle/20.500.12657/50490
4	Advanced Concepts in Particle and Field Theory	Hübsch, T.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59215
5	An Introduction to Beam Physics	Berz M., Makino K., Wan W	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50888
6	An Introduction to Gauge Theories	Cabibbo, Nicola., Maiani, Luciano., Benhar, Omar.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/108765
7	An Introduction to Nuclear Physics. 2nd Edition	Cottingham, W.N., Greenwood, D.A.	Cambridge University Press	https://doi.org/10.1017/CBO9781139164405
8	An Introduction to Particle Accelerators	Wilson, Edmund	Oxford University Press	https://library.oapen.org/handle/20.500.12657/76447
9	An Introduction to Particle Physics and the Standard Model	Mann, R.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50882
10	An Introduction to Regge Theory and High Energy Physics	Collins, P.D.B.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64007
11	An Introduction to the Physics of Particle Accelerators. 2nd Edition	Conte, Mario and Mackay, William W.	World Scientific	https://library.oapen.org/handle/20.500.12657/109559
12	An Introduction to the Passage of Energetic Particles through Matter	Carron, N. J.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50879
13	An Introduction to the Standard Model of Particle Physics	Cottingham, W.N., Greenwood, D.A.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64010
14	Asymptotic Diffraction Theory and Nuclear Scattering	Grauber, Roy J. and Osland, Per	Cambridge University Press	https://doi.org/10.1017/9781316219256
15	Bayesian Reasoning in Data Analysis: A critical introduction	D'agostini, Giulio	World Scientific	https://library.oapen.org/handle/20.500.12657/109554
16	Beam-based Correction and Optimization for Accelerators	Huang, H.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/53310
17	Bell Nonlocality	Scarani, V.	Oxford University Press	https://library.oapen.org/handle/20.500.12657/59110
18	Challenges and Goals for Accelerators in the XXI century	Myers, S., Bruning, eds	World Scientific	https://library.oapen.org/handle/20.500.12657/50491
19	Classical Charged Particles. 3rd Edition	Rohrlich, Fritz	World Scientific	https://library.oapen.org/handle/20.500.12657/109560
20	Classical Covariant Fields	Burgess, M.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59204
21	Classical Solutions in Quantum Field Theory	Weinberg, Erick J.	Cambridge University Press	
22	Colliders and Neutrinos - The Window into Physics beyond the Standard Model (TASI 2006)	Dawson, S., and Mohapatra, N.R.	World Scientific	https://library.oapen.org/handle/20.500.12657/53581
23	Conformal Methods in General Relativity	Kroon, J.A.V.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59217
24	Contemporary Accelerator Physics	Tzenov, Stephan Ivanov	World Scientific	https://library.oapen.org/handle/20.500.12657/109553
25	Cosmology in Gauge Field Theory and String Theory	Bailin, D., and Love, A.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50878
26	CP violation	Branco, Gustavo et al	Oxford University Press	https://library.oapen.org/handle/20.500.12657/85656
27	D-Branes	Johnson, Clifford V.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64015
28	Data Analysis Techniques for Physical Scientists	Pruneau, Claude A.	Cambridge University Press	https://doi.org/10.1017/9781108241922
29	Detectors in High-Energy Physics Experiments: Underlying Physics, Working Principles, and Realizations	Eigen, Gerald	Springer Nature	https://library.oapen.org/handle/20.500.12657/105415
30	Detectors in Particle Physics	Viehhauser, G, Weidberg, T	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/88075
31	Dynamics of Charged Particles and their Radiation Field	Spohn, Herbert	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64023
32	Dynamics of the Standard Model	Donoghue, J.F., Golowich, E., Holstein, B.R.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59209
33	Effective Field Theory for Spontaneously Broken Symmetry	Brauner, Tomas	Springer Nature	https://library.oapen.org/handle/20.500.12657/90477
34	Effective Theories in Physics	Wells, J.D.	Springer Nature	https://library.oapen.org/handle/20.500.12657/56973
35	Electron Scattering for Nuclear and Nucleon Structure	Walecka, J.D.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59223
36	Electron-Phonon Interactions in Low-Dimensional Structures	Challis, Lawrence	Oxford University Press	https://library.oapen.org/handle/20.500.12657/76451
37	Electroweak Physics at LEP and LHC	Straessner, A.	Springer Nature	https://library.oapen.org/handle/20.500.12657/56971

No.	Title	Author(s)	Publisher	OAPEN URI
38	Electroweak Theory	Paschos, E.A.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64020
39	Elementary Scattering Theory	Sivia, D.S.	Oxford University Press	https://library.oapen.org/handle/20.500.12657/59107
40	Experimental Techniques in Modern High Energy Physics	Yamazaki, Y., Tomono, M., Tanaka, J., Hanagaki, K.	Springer	https://doi.org/10.1007/978-4-431-56931-2
41	Experimental Techniques in Nuclear and Particle Physics	Tavernier, S.	Springer Nature	https://library.oapen.org/handle/20.500.12657/56972
42	Finite-Temperature Field Theory, Second edition	Kapusta, Joseph I., Gale, Charles	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64016
43	Foundations of Perturbative QCD	Collins, John	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64006
44	Gravity, Cosmology and Astrophysics : A Journey of Exploration and Discover with Female Pioneers	Kuntz, J., Hartmann, B.	Springer	https://doi.org/10.1007/978-3-031-42096-2
45	Gaseous Radiation Detectors	Sauli, F.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59221
46	Gauge Fields and Strings	Polyakov, A.M.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50871
47	Gauge Theories in Particle Physics: A Practical Introduction, 2 volumes set, Fourth Edition	Aitchison I.J.R, Hey, A.J.G	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50883
48	Gauge Theories in Particle Physics: A Practical Introduction, Volume 1: From Relativistic Quantum Mechanics to QED, Fourth Edition	Aitchison I.J.R, Hey, A.J.G	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50885
49	Gauge Theories in Particle Physics: A Practical Introduction, Volume 2: Non-Abelian Gauge Theories QCD and The Electroweak Theory, Fourth Edition	Aitchison I.J.R, Hey, A.J.G	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50884
50	Gauge Theory of Elementary Particle Physics (1984)	Cheng, T., Li, L.	Oxford University Press	https://library.oapen.org/handle/20.500.12657/59106
51	Gauge Theory of Elementary Particle Physics (2000)	Cheng, T., Li, L.	Oxford University Press	https://library.oapen.org/handle/20.500.12657/89521
52	Gauge Theory of Weak Decays	Buras, Andrzej J.	Cambridge University Press	https://doi.org/10.1017/9781139524100
53	Gauge/String Duality, Hot QCD and Heavy Ion Collisions	Casalderrey-Solana, Jorge et al	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64005
54	Geometric Quantization and Applications to Fields and Fluids	Nair, V. Parameswaran	Springer Nature Switzerland	https://library.oapen.org/handle/20.500.12657/96143
55	Group Theory for the Standard Model of Particle Physics and Beyond	Barnes, J.K	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50881
56	Hadrons and Quark–Gluon Plasma	Letessier, J., Rafelski, J.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59218
57	Hands-On Accelerator Physics Using MATLAB®	Ziemann, Volker	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/98031
58	Heavy Flavour Physics : Theory and Experimental Results in Heavy Quark Physics and CP Violation	Davies C., Playfer S.M., Osborne P.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50877
59	Heavy Quark Physics	Manohar, Aneesh V., Wise, Mark B.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64019
60	Ideas and Methods of Supersymmetry and Supergravity or A Walk Through Superspace	Kruzenko, S.M.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50874
61	Instrumentation and Techniques in High Energy Physics	Lincol, Donald (ed.)	World Scientific	https://library.oapen.org/handle/20.500.12657/97919
62	Introduction to Elementary Particle Physics. 3rd ed. (2024)	Bettini, A.	Cambridge University Press	https://doi.org/10.1017/9781009440745
63	Introduction to Experimental Particle Physics (1986)	Fernow, R.C.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59210
64	Introduction to Experimental Particle Physics. 3rd ed. (2024)	Fernow, R.C.	Cambridge University Press	https://doi.org/10.1017/9781009290098
65	Introduction to Gauge Field Theory	Bailin, D., Love, A.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50872
66	Introduction to General Relativity, Black Holes and Cosmology	Choquet-Bruhat, Yvonne	Oxford University Press	https://library.oapen.org/handle/20.500.12657/85657
67	Introduction to Quantum Fields on a Lattice	Smit, Jan	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64022
68	Introduction to Supersymmetric Field Theory	Kuzenko, Sergio M.	Taylor & Francis	https://www.taylorfrancis.com/books/oa-mono/10.1201/9780367802530/
69	Kinks and Domain Walls	Vachaspati, T.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59222
70	Lattice Gauge Theories: an Introduction	Rothe, H. J.	World Scientific	https://library.oapen.org/handle/20.500.12657/50492
71	Lectures on Probability, Information and Large Scale Behaviour	Marsili, M.	SISSA Medialab	https://library.oapen.org/handle/20.500.12657/103990
72	Lie Algebras In Particle Physic from Isospin To Unified Theories	Georgi H.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50876
73	Loops, Knots, Gauge Theories	Gambini, R., Pullin, J.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59213
74	Mathematics of Quantization and Quantum Fields	Dereziński, J., Gérard, C.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59207
75	Methods of Contemporary Gauge Theory	Makeenko, Yuri	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64018

No.	Title	Author(s)	Publisher	OAPEN URI
76	Moonshine beyond the Monster	Gannon, Terry	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64012
77	Neutrino Physics	Zuber, K.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/53313
78	Neutron Interferometry	Rauch, H., Werner, S.A.	Oxford University Press	https://library.oapen.org/handle/20.500.12657/59109
79	Nonequilibrium Quantum Field Theory	Calzetta, E.A., Hu, B.B.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59205
80	Non-Perturbative Field Theory	Frishman, Yitzhak, Sonnenschein, Jacob	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64011
81	Non-Perturbative Quantum Field Theory	Percacci, Roberto	SISSA Medialab S.r.l.	https://library.oapen.org/handle/20.500.12657/96025
82	Nuclear Radiation Interactions	Yip, Sidney	World Scientific	https://library.oapen.org/handle/20.500.12657/109561
83	Nuclear Superfluidity	Brink, David M., Broglia, Ricardo A.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64004
84	Particle Detectors second edition	Gruppen, Claus, Shwartz, Boris	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64013
85	Particle Physics in the LHC era	Barr, G., Devenish, R., Walczak, R., Weidberg, T.	Oxford University Press	https://library.oapen.org/handle/20.500.12657/59108
86	Perspectives on LHC Physics	Kane, G., and Pierce, A.	World Scientific	https://library.oapen.org/handle/20.500.12657/53582
87	Perspectives on String Phenomenology	Acharya, B., Kane, L.G., and Kumar, P.	World Scientific	https://library.oapen.org/handle/20.500.12657/53579
88	Phenomenology of Ultra-relativistic Heavy-ion Collisions	Florkowski, Wojciech	World Scientific	https://library.oapen.org/handle/20.500.12657/109558
89	Physics of Intensity Dependent Beam Instabilities	Ng, King Yuen	World Scientific	https://library.oapen.org/handle/20.500.12657/109556
90	Principles of Magnetostatics	Fernow, R.C.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59211
91	QCD and Collider Physics	Ellis, R.K., Stirling, W.J. and Webber, B.R.	Cambridge University Press	https://doi.org/10.1017/CBO9780511628788
92	QCD as a Theory of Hadrons	Narison, S.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59219
93	Quantized Detector Networks	Jaroszkiwicz, George	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64014
94	Quantum Chromodynamics and the Pomeron	Forshaw, J.R., Ross, D.A.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59212
95	Quantum Chromodynamics at High Energy	Kovchegov, Y.V., Levin, E.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59216
96	Quantum Theory of Angular Momentum	Varchalovich D.A., Moskalev, A. N., V.K. Khersonskii	World Scientific	https://library.oapen.org/handle/20.500.12657/50493
97	Quarks, Gluons and Lattices	Creutz, M.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59206
98	Relativistic Quantum Mechanics	Maiani, Luciano Benhar, Omar	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/93149
99	Renormalization	Collins, John	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64008
100	Scattering Amplitudes in Gauge Theory and Gravity	Elvang, Henriette and Huang, Yu-Tin	Cambridge University Press	https://doi.org/10.1017/CBO9781107706620
101	Single-Event Effects, from Space to Accelerator Environments	Aguiar, Ygor Quadros de Wrobel, Frédéric Autran, Jean-Luc García Alía, Rubén	Springer Nature	https://library.oapen.org/handle/20.500.12657/94673
102	Spin in Particle Physics	Leader, Elliot	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64017
103	Statistics for Nuclear and Particle Physicists	Lyons, Louis	Cambridge University Press	https://doi.org/10.1017/CBO9781139167710
104	Strong Interactions of Hadrons at High Energies	Gribov, V.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59214
105	Supersymmetric Gauge Field Theory and String Theory	Bailin, D., Love, A.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50873
106	Supersymmetric Solitons	Shifman, M., Yung, A.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64021
107	Supersymmetry and String Theory	Dine, M.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59208
108	Tensor Network Techniques for Quantum Computation	Collura, Mario Lami, Guglielmo Ranabhat, Nishan Santini, Alessandro	SISSA Medialab S.r.l.	https://library.oapen.org/handle/20.500.12657/96026
109	The Black Book of Quantum Chromodynamics	Campbell, J., Huston, J., Krauss, F.	Oxford University Press	https://library.oapen.org/handle/20.500.12657/59105
110	The Experimental Foundations of Particle Physics. 2nd Edition	Cahn, Robert N. and Goldhaber, Gerson	Cambridge University Press	https://doi.org/10.1017/9780511609923

No.	Title	Author(s)	Publisher	OAPEN URI
111	The First African Conference on High Energy Physics	Tayalati, Yahya (ed.) Gouighri, Mohamed (ed.)	Springer Nature	https://library.oapen.org/handle/20.500.12657/107707
112	The Lund Model	Andersson, Bo	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64003
113	The Physics of Laser Plasmas and Applications II	Hideaki Takabe	Springer Nature	https://library.oapen.org/handle/20.500.12657/89962
114	The Physics of the B Factories	Bevan, Adrian, et al.	Springer Nature	https://library.oapen.org/handle/20.500.12657/27959
115	The Pinch Technique and its Applications to Non-Abelian Gauge Theories	Cornwall, John M. et al	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/64009
116	The Release of Thermonuclear Energy by Inertial Confinement: Ways towards Ignition	Winterberg, Friedwardt	World Scientific	https://library.oapen.org/handle/20.500.12657/109557
117	The Science and Technology of Particle Accelerators	Appleby, R., Burt, G., Clarke, J., Owen, H.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/53311
118	The Standard Model and Beyond	Langacker P.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50890
119	The Theory and Applications of Instanton Calculations	Paranjape, M.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59220
120	The World in Eleven Dimensions: Supergravity, Supermembranes and M-theory	Duff, M. J.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50875
121	Theoretical Foundations of Synchrotron and Storage Ring RF Systems	Klingbeil, H., Laier, U., Lens, D.	Springer Nature	https://library.oapen.org/handle/20.500.12657/57000
122	Theory and Phenomenology of Sparticles: An Account of Four-dimensional N=1 Supersymmetry in High Energy Physics	Drees, Manuel (ed.) Godbole, Rohini (ed.) Roy, Probir (ed.)	World Scientific	https://library.oapen.org/handle/20.500.12657/109555
123	Understanding the Physics of Particle accelerators	Méot, François	Springer Nature	https://library.oapen.org/handle/20.500.12657/93978
124	Unifying Physics of Accelerators, Lasers and Plasma	Seryi, A.	Taylor & Francis	https://library.oapen.org/handle/20.500.12657/50889
125	Weak Scale Supersymmetry	Baer, H., Tata, X.	Cambridge University Press	https://library.oapen.org/handle/20.500.12657/59203