

**SYMMETRY & RELATIVITY
RECOMMENDED BOOKS**

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Books recommended by the lecturer:

Steane, A.
Relativity Made Relatively Easy
Oxford University Press, 2012
ISBN-10 : 019966286X
ISBN-13 : 978-0199662869

https://www.amazon.co.uk/Relativity-Made-Relatively-Andrew-Steane/dp/019966286X/ref=sr_1_1?dchild=1&keywords=steane+relativity&qid=1601216628&sr=8-1

Jackson, J.D.
Classical Electrodynamics
Wiley, 1998
ISBN-10 : 9780471309321
ISBN-13 : 978-0471309321

https://www.amazon.co.uk/Classical-Electrodynamics-John-David-Jackson/dp/047130932X/ref=tmm_hrd_swatch_0?encoding=UTF8&qid=&sr=

Recommended books:

Weinberg, S,
Gravitation and Cosmology,
Wiley Student Edition, 2008
ISBN-10 : 8126517557
ISBN-13 : 978-8126517558

https://www.amazon.co.uk/Gravitation-Cosmology-Principles-Applications-Relativity/dp/8126517557/ref=sr_1_1?dchild=1&keywords=weinberg+gravitation&qid=1601218587&s=b&sr=1-1

Lightman, A. Press, W., Price, R. and Teukolsky, S.
Problem Book in Relativity and Gravitation
Princeton University Press, 2017
ISBN-10 : 0691177783
ISBN-13 : 978-0691177786

https://www.amazon.co.uk/Problem-Book-Relativity-Gravitation-Lightman/dp/0691177783/ref=sr_1_5?dchild=1&qid=1601218205&refinements=p_27%3ASaul+A.+Teukolsky&s=books&sr=1-5&text=Saul+A.+Teukolsky

Landau, L.D. and Lifshitz, E.M.
The Classical Theory of Fields: Volume 2 (Course of Theoretical Physics)
Butterworth-Heinemann, 1980
ISBN-10 : 0750627689
ISBN-13 : 978-0750627689

https://www.amazon.co.uk/Classical-Theory-Fields-Theoretical-Physics/dp/0750627689/ref=sr_1_1?dchild=1&keywords=landau+field&qid=1601218770&s=books&sr=1-1

Books on mathematical aspects such as tensors, manifolds, Riemannian geometry etc

Dubrovin, B.A. and Fomenko, A.T. and Novikov, S.P.
Modern Geometry - Methods and Applications: Part I: The Geometry of Surfaces, Transformation Groups, and Fields (Graduate Texts in Mathematics)
Springer, 2011
ASIN : B017EYQN8W

https://www.amazon.co.uk/Modern-Geometry-Applications-Transformation-published/dp/B017EYQN8W/ref=tmm_pap_swatch_0?encoding=UTF8&qid=&sr=

Dubrovin, B.A. and Fomenko, A.T. and Novikov, S.P.
Modern Geometry Methods and Applications: Part II: The Geometry and Topology of Manifolds: Part 2 (Graduate Texts in Mathematics)
Springer, 1985
ISBN-13 : 978-0387961620
ISBN-10 : 0387961623

https://www.amazon.co.uk/Modern-Geometry-Methods-Applications-Mathematics/dp/0387961623/ref=tmm_hrd_swatch_0?encoding=UTF8&qid=&sr=

Nakahara, M
Geometry, Topology and Physics, Second Edition
CRC Press, 2003
ISBN-10 : 9780750306065
ISBN-13 : 978-0750306065

https://www.amazon.co.uk/Geometry-Topology-Physics-Graduate-Student/dp/0750306068/ref=sr_1_1?dchild=1&keywords=nakahara&qid=1601216068&s=books&sr=1-1

Carroll, S
Spacetime and Geometry: An Introduction to General Relativity
Cambridge University Press, 2019
ISBN-10 : 1108488390
ISBN-13 : 978-1108488396

https://www.amazon.co.uk/Spacetime-Geometry-Introduction-General-Relativity/dp/1108488390/ref=pd_bxgy_img_3/261-4018959-7052709?encoding=UTF8&pd_rd_i=1108488390&pd_rd_r=7e349e81-7f5f-4239-8457-40e154079fed&pd_rd_w=W5Fff&pd_rd_wg=EZs23&pf_rd_p=dcf35746-0212-418b-a148-30395d107b2d&pf_rd_r=CPAPX6NANM48Q58SE6W5&pvc=1&refRID=CPAPX6NANM48Q58SE6W5