

Bangladesh Physics Olympiad

Books List

- Books which are recommended-reading are marked with (**)
- Books which introduce Calculus along with Physics are marked with (^)

Math/Calculus:	
**	Street-Fighting Mathematics , Sanjay Mahajan
**	Calculus , L. V. Tarasov
	Higher Math for Beginners , Y. B. Zeldovich & I. M. Yaglom
	Fundamentals of Calculus , B. Crowell, J. Robbin & S. Angenent
Beginner:	
	Questions and Problems in School Physics , L. Tarasov & A. Tarasova
^	College Physics , A. Giambattista, B. M. Richardson, R. C. Richardson
	Physics , J. D. Cutnell and K. W. Johnson
	Conceptual Physics , Benjamin Crowell
	The Flying Circus of Physics , Jearl Walker
Intermediate:	
**	Physics: Vol.I , Resnick – Halliday – Krane
**	Physics: Vol.II , Resnick – Halliday – Krane
**	Physics: Principles with Applications , Douglas C. Giancoli
^	University Physics with Modern Physics , Hugh D. Young, Roger A. Freedman & Lewis Ford
^	Physics for Scientists and Engineers , R. A. Serway & J. W. Jewett(Jr.)
^	Simple Nature , Benjamin Crowell
**	General Methods for Solving Physics Problems , B. S. Belikov
	Elementary Physics: Problems and Solutions , I. P. Gurskii
Advanced:	
**	An Introduction to Mechanics (2nd Ed.) , D. Kleppner & R. J. Kolenkow
	Introduction to Classical Mechanics , David J. Morin
**	Introduction to Statics and Dynamics , A. Ruina & R. Pratap
	Mechanics , Benjamin Crowell
**	Electricity and Magnetism (3rd Ed.) , E. M. Purcell & D. J. Morin
	Introduction to Electrodynamics (4th Ed.) , David J. Griffiths

	Electromagnetic Fields and Waves , P. Lorrain & D. R. Corson
	Teach Yourself Electricity and Electronics , Stan Gibilisco
	Waves (Berkley Physics Course, Vol. 3) , Frank S. Crawford(Jr.)
**	Vibrations and Waves , A. P. French
**	Introduction to Optics , F. L. Pedrotti & L. S. Pedrotti
**	Concepts in Thermal Physics , Stephen Blundell & Katherine Blundell
	Thermal and Statistical Physics , H. Gould and J. Tobochnik
**	Relativity and Common Sense , Hermann Bondi
**	Spacetime Physics: Introduction to Special Relativity (2nd Ed.) , E. F. Taylor & J. A. Wheeler
	Introduction to Special Relativity , Robert Resnick
	Special Relativity , Benjamin Crowell
	Particle Physics: A Very Short Introduction , Frank Close
Experimental:	
**	Practical Physics , G. L. Squires
	An Introduction to Error Analysis , John R. Taylor
Problem Books:	
	International Physics Olympiads , Waldemar Gorzkowski
**	Int'l Physics Olympiad: Problems and Solutions from 1967-1995 , Chaleo Manilerd
	Problems in Introductory Physics , B. Crowell and B. Shotwell
	200 Puzzling Physics Problems , P. Gnädig, G. Honyek & K. F. Riley
	Physics by Example: 200 Problems and Solutions , W. G. Rees
	Princeton Problems in Physics with Solutions , N. Newbury et. al.
	Cambridge Problems in Physics , P. P. Dendy, R. Tuffnell & C.H.B. Mee
	Cavendish Problems in Classical Physics , A. B. Pippard
	A GUIDE TO PHYSICS PROBLEMS: Part 1 - Mechanics, Relativity, and Electrodynamics , Sidney B. Cahn & Boris E. Nadgorny
	A GUIDE TO PHYSICS PROBLEMS: Part 2 - Thermodynamics, Statistical Physics, and Quantum Mechanics , Sidney B. Cahn & Boris E. Nadgorny
	PROBLEMS IN UNDERGRADUATE PHYSICS: Vol. 1 – Mechanics , S. P. Strelkov, I. A. Yakovlev
	PROBLEMS IN UNDERGRADUATE PHYSICS: Vol. 2 - Electricity and Magnetism , S. P. Strelkov, I. A. El'tsin, & S. E. Khaikin

	PROBLEMS IN UNDERGRADUATE PHYSICS: Vol. 3 – Optics , V. L. Ginzburg, D. V. Sivukhin, L. M. Levin, E. S. Chetverikova
	PROBLEMS IN UNDERGRADUATE PHYSICS: Vol. 4 - Molecular Physics, Thermodynamics, Atomic and Nuclear Physics , V. L. Ginzburg, L. M. Levin, M. S. Rabinovich, & D.V. Sivukhin
	Problems and Solutions on Mechanics , Lim Yung-kuo
	Problems and Solutions on Electromagnetism , Lim Yung-kuo
	Problems and Solutions on Thermodynamics and Statistical Mechanics , Lim Yung-kuo
	Problems and Solutions on Optics , Lim Yung-kuo
	Problems and Solutions on Atomic, Nuclear and Particle Physics , Lim Yung-kuo
	Problems and Solutions on Quantum Mechanics , Lim Yung-kuo
	Problems and Solutions on Solid State Physics, Relativity and Miscellaneous Topics , Lim Yung-kuo
Russian Books:	
**	Problems in General Physics , I. E. Irodov
**	Aptitude Test Problems in Physics , S. S. Krotov
**	A Collection of Questions and Problems in Physics , L. A. Sena
	Problems in Physics , A. A. Pinsky
	Physical Problems for Robinsons , V. Lange
	Problems in Elementary Physics , B. Bukhotsev et al.
	Selected Problems in Physics , M. P. Shashol'skaya & I. A. El'tsin
	Problems In Physics , V. Zubov & V. Shalnov
	Worked Examples in Physics , V. Zubov And V. Shalnov
	Problems in General Physics , V. S. Wolkenstein
	Selected Problems on Physics , S.P. Myasnikov & T. N. Osanova
	Selected Questions and Problems in Physics , R. Gladkova & N. Kutyllovskaya
	Collection Of Problems In Theoretical Mechanics , I. V. Meshchersky
Olympiad Notes:	
**	Physics Olympiad Notes , Jaan Kalda
**	Physics Olympiad: Basic to Advanced Exercises , Japan Physics Olympiad Committee

	Mechanics in Physics Olympiad , Hong Kong Physics Olympiad Committee
	Upgrade Your Physics , Anton Machachek
Online Resources:	
	Error Analysis Tutorial http://phys.columbia.edu/~tutorial/
	Student Laboratory Handbook http://www2.phy.ilstu.edu/~wenning/slh/
	Project PHYSNET PDF-Modules http://www.physnet.org/modules/pdf_modules.html
	Collection of Papers from Physics Olympiads/Competitions <ol style="list-style-type: none"> 1. http://mpec.sc.mahidol.ac.th/ipho2011/node/158 2. https://scienceolympiadsbd.blogspot.com/p/preparation-guideline.html
	Online Competitions: <ol style="list-style-type: none"> 1. FYKOS: The Internet Physics Competition http://fykos.org/en 2. IPhOO – International Physics Online Olympiad http://www.onlinescienceolympiads.org 3. Online Physics Brawl http://physicsbrawl.org/en/
	High-School Journals: <ol style="list-style-type: none"> 1. KöMal https://www.komal.hu/verseny/korabbi.e.shtml 2. Quantum: The Magazine of Math and Science http://www.nsta.org/publications/quantum.aspx 3. The Physics Teacher http://aapt.scitation.org/journal/pte

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