

Physics

Books

Available in the UOP Library

A Short History of Nearly Everything - Bill Bryson – Have you ever wanted to know nearly everything that happened in the time between the Big Bang and human civilization? Well then, this is the book for you! Bryson manages to discuss the complex evolution of the Universe in language that is understandable by all. ★★★★★

What if? – Randall Munroe- How high can a human throw something? How much physical space does the internet take up? Is it possible to build a jetpack using downward-firing machine guns? All these questions and more answered in this stunning work of logic and lunacy. ★★★★★

OCR AS/A2 Physics Student Book – Robert Hutchings – This textbook clearly discusses many of the key ideas and concepts covered during the AS course. It also includes questions, answers, a glossary and topic mind-maps. ★★★★★

Why does $E=mc^2$? – Brian Cox and Jeff Forshaw – Everyone knows this iconic equation, but what does it actually mean? Brian and Jeff discuss its derivation and meaning, eventually leading to some unexpected and shocking truths about the nature of the Universe. ★★★★★

Available to purchase from good book stores or online

A Brief History of Time – Stephen Hawking – TBH, the best physics book ever. Professor Hawking discusses the origins of the Universe, the nature of the fundamental particles and black holes. All are introduced in simple terms that gradually build to post A-level knowledge. ★★★★★

Quantum: A guide for the Perplexed – Jim Al-Khalili – This is the book that got Mr Attwood hooked on Physics. It studies, simplifies, develops and enhances the most topical and exciting aspects of quantum physics. It is awesome! Jim is a chemist and physicist, search him on Youtube for more of his great work. ★★★★★

Magazines/journals

New Scientist
Physics World
How it Works
Physics Review
Scientific American

Places of Interest

Herschel Museum – Bath
@Bristol and Planetarium - Bristol
Science Museum - London
Culham Science Centre – Oxfordshire
National Space Centre - Leicester
CERN – Geneva, Switzerland

Websites

www.iop.org – Institute of Physics
www.sixtysymbols.com
www.galaxyzoo.org
www.physicsworld.com
home.web.cern.ch