



## One Hundred Physics Visualizations Using MATLAB (Mixed media product)

By Dan Green, Simon Mugford

World Scientific Publishing Co Pte Ltd, Singapore, 2014. Mixed media product. Book Condition: New. 230 x 158 mm. Language: English . Brand New Book. This book provides visualizations of many topics in general physics. The aim is to have an interactive MATLAB script wherein the user can vary parameters in a specific problem and then immediately see the outcome by way of dynamic movies of the response of the system in question. MATLAB tools are used throughout and the software scripts accompany the text in Symbolic Mathematics, Classical Mechanics, Electromagnetism, Waves and Optics, Gases and Fluid Flow, Quantum Mechanics, Special and General Relativity, and Astrophysics and Cosmology. The emphasis is on building up an intuition by running many different parametric choices chosen actively by the user and watching the subsequent behavior of the system. Physics books using MATLAB do not have the range - or the intent - of this text. They are rather steeped in technical detail. Symbolic math is used extensively and is integral to the aim of using MATLAB tools to accomplish the technical aspects of problem solving.



**READ ONLINE**  
[ 8.24 MB ]

### Reviews

*Unquestionably, this is actually the greatest function by any author. I was able to comprehend every little thing using this created e ebook. Its been printed in an remarkably straightforward way which is merely following i finished reading this ebook in which in fact altered me, alter the way i think.*

-- **Arianna Witting**

*An exceptional book as well as the font used was exciting to read. It is actually rally intriguing through reading time. You will not sense monotony at anytime of the time (that's what catalogues are for about when you ask me).*

-- **Crystal Hagenes**