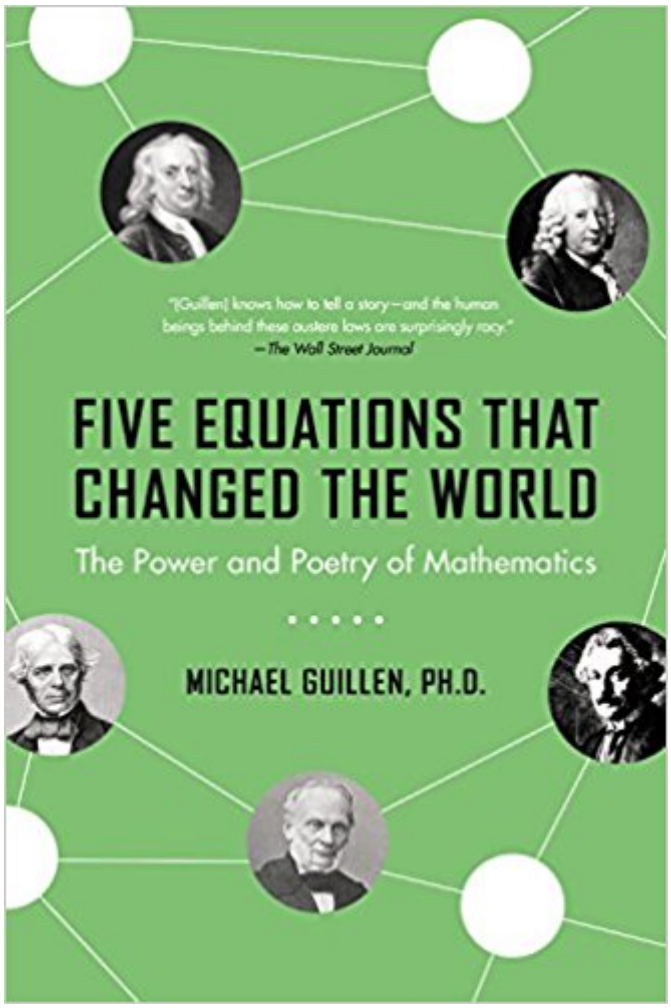
Five Equations That Changed The World: The Power And Poetry Of Mathematics



Synopsis

A Publishers Weekly best book of 1995! Dr. Michael Guillen, known to millions as the science editor of ABC’s Good Morning America, tells the fascinating stories behind five mathematical equations. As a regular contributor to daytime’s most popular morning news show and an instructor at Harvard University, Dr. Michael Guillen has earned the respect of millions as a clear and entertaining guide to the exhilarating world of science and mathematics. Now Dr. Guillen unravels the equations that have led to the inventions and events that characterize the modern world, one of which -- Albert Einstein’s famous energy equation, E=mc2 -- enabled the creation of the nuclear bomb. Also revealed are the mathematical foundations for the moon landing, airplane travel, the electric generator -- and even life itself. Praised by Publishers Weekly as "a wholly accessible, beautifully written exploration of the potent mathematical imagination," and named a Best Nonfiction Book of 1995, the stories behind The Five Equations That Changed the World, as told by Dr. Guillen, are not only chronicles of science, but also gripping dramas of jealousy, fame, war, and discovery.

Book Information

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Customer Reviews

Harvard mathematician Guillen looks at five mathematical breakthroughs and the theorists behind them, among them Isaac Newton and Albert Einstein. Copyright 1996 Reed Business Information, Inc.

Guillen, an instructor in physics and mathematics at Harvard, devotes this work to discussions of five significant equations in physics and the individuals who developed them. The individuals are

Issac Newton (universal gravitation), Daniel Bernoulli (hydrodynamic pressure), Michael Faraday (thermodynamics), Rudolf Clausius (thermodynamics), and Albert Einstein (special relativity). Guillen sets their work in the context of the science of their times with accounts that are obviously fictionalized, containing many purported conversations and private thoughts of the physicists in question. The prose is quite purplish in places, and the matters of fact and interpretation are often questionable if not outright wrong. Not recommended for most libraries.?Jack W. Weigel, Univ. of Michigan Lib., Ann ArborCopyright 1995 Reed Business Information, Inc. --This text refers to an out of print or unavailable edition of this title.

This book is very informative to the curious but not scientifically trained individual. I would recommend it as a starting point for those wanting to begin their scientific learning.

I loved this book as a kid and now so does my daughter. Its not heavy on Math but is more story oriented. Allows you to really appreciate these great equations and how they have changed the world. I certainly recommend this to anyone interested in Science and Math.

This is an easy book to follow. I would recommend this to any one who thinks they’re not smart enough to get into scientific theories because the author was able to simplify them so that common folk like I can pretend to understand the theory of relativity. Overall a great read. Would recommend it.

I have read this before and wanted my own copy, good value

I wish I knew it was the old book and the quality of the pages were good but the outside was beating up a good bit

Great stories and written in a unique way; made the learning about the scientists enjoyable.

This guy knows how to write!

Much has been written about Isaac Newton and Albert Einstein, all carefully documented. The anecdotal tales in this book are completely undocumented. Perhaps the lack of scientific rigor is not noticed by the nonscientific reader, but as a practicing scientist for 45 years (Ph.D. in theoretical

physics) I found expressions like "the weight of the universe" annoying. Even the choice of Michael Faraday seems strange in a book devoted to "The power and poetry of Mathematics" as Faraday was mostly unversed in mathematics.

Five Equations that Changed the World: The Power and Poetry of Mathematics Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGEâ ™S EQUATIONS, HAMILTONâ ™S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) Numerical Partial Differential Equations: Conservation Laws and Elliptic Equations (Texts in Applied Mathematics) (v. 33) Partial Differential Equations of Mathematical Physics and Integral Equations (Dover Books on Mathematics) Differential Equations and Their Applications: An Introduction to Applied Mathematics (Texts in Applied Mathematics) (v. 11) Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) [Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012) [Paperback] Student's Solutions Manual for Fundamentals of Differential Equations 8e and Fundamentals of Differential Equations and Boundary Value Problems 6e How Einstein gives Dirac, Klein-Gordon and SchrÃ¶dinger: Deriving the SchrÃ¶dinger, Dirac and Klein-Gordon Equations from the Einstein-Field-Equations via an Intelligent Zero Solar Power: The Ultimate Guide to Solar Power Energy and Lower Bills: (Off Grid Solar Power Systems, Home Solar Power System) (Living Off Grid, Wind And Solar Power Systems) Power Training: For Combat, MMA, Boxing, Wrestling, Martial Arts, and Self-Defense: How to Develop Knockout Punching Power, Kicking Power, Grappling Power, and Ground Fighting Power Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations: Improve Your Math Fluency Series Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations (Improve Your Math Fluency Series 12) Power Pivot and Power BI: The Excel User's Guide to DAX, Power Query, Power BI & Power Pivot in Excel 2010-2016 Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Student Solutions Manual to accompany Boyce Elementary Differential Equations 10e & Elementary Differential Equations with Boundary Value Problems 10e Modern

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