

WHAT EVERY ENGINEER SHOULD KNOW

What Every Engineer Should Know About

EXCEL

SECOND EDITION



J. P. Holman and Blake K. Holman



CRC Press
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What Every Engineer Should Know About Excel

JA Banks



What Every Engineer Should Know About Excel:

What Every Engineer Should Know About Excel J. P. Holman, Blake K. Holman, 2006-06-09 With the many software packages available today it is easy to overlook the computational and graphics capabilities offered by Microsoft Excel™ The software is nearly ubiquitous and understanding its capabilities is an enormous benefit to engineers in almost any field and at all levels of experience What Every Engineer Should Know About Excel offers in nine self contained chapters a practical guide to the features and functions that can be used for example to solve equations and systems of equations build charts and graphs create line drawings and perform optimizations The author uses examples and screenshots to walk you through the steps and build a strong understanding of the material With this book you will learn how to Set up the keyboard for direct entry of most math and Greek symbols Build a default scatter graph that is applicable to most simple presentations with little cosmetic modification Apply many types of formats to adjust the cosmetics of graphs Use 3D surface and area charts for data and functional representations with associated cosmetic adjustments Correlate data with various types of functional relations Use line drawing tools to construct simple schematics or other diagrams Solve linear and nonlinear sets of equations using multiple methods Curve student grades using Excel probability functions Model device performance using different types of regression analysis involving multiple variables Manipulate Excel financial functions Calculate retirement accumulation with variable contribution rate and retirement payouts to match increases in inflation Apply Excel methods for optimization problems with both linear and nonlinear relations Use pivot tables to manipulate both experimental data and analytical relationships Calculate experimental uncertainties using Excel And much more [What Every Engineer Should Know About Risk Engineering and Management](#) John X. Wang, 2023-07-31 Completely updated this new edition uniquely explains how to assess and handle technical risk schedule risk and cost risk efficiently and effectively for complex systems that include Artificial Intelligence Machine Learning and Deep Learning It enables engineering professionals to anticipate failures and highlight opportunities to turn failure into success through the systematic application of Risk Engineering What Every Engineer Should Know About Risk Engineering and Management Second Edition discusses Risk Engineering and how to deal with System Complexity and Engineering Dynamics as it highlights how AI can present new and unique ways that failures can take place The new edition extends the term Risk Engineering introduced by the first edition to Complex Systems in the new edition The book also relates Decision Tree which was explored in the first edition to Fault Diagnosis in the new edition and introduces new chapters on System Complexity AI and Causal Risk Assessment along with other chapter updates to make the book current Features Discusses Risk Engineering and how to deal with System Complexity and Engineering Dynamics Highlights how AI can present new and unique ways of failure that need to be addressed Extends the term Risk Engineering introduced by the first edition to Complex Systems in this new edition Relates Decision Tree which was explored in the first edition to Fault Diagnosis in the new edition Includes new chapters on System Complexity AI and Causal Risk

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