1. Record Nr. UNINA9910300258903321

Autore	Quirk Thomas J
Titolo	Excel 2013 for Engineering Statistics : A Guide to Solving Practical Problems / / by Thomas J. Quirk
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-23555-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XV, 248 p. 162 illus., 161 illus. in color.)
Collana	Excel for Statistics, , 2570-4605
Disciplina	519.5
Soggetti	Statistics Applied mathematics Engineering mathematics Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences Statistics and Computing/Statistics Programs Mathematical and Computational Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Sample Size, Mean, Standard Deviation, and Standard Error of the Mean. - Random Number Generator -- Confidence Interval About the Mean Using the TINV Function and Hypothesis Testing -- One-Group t-Test for the Mean -- Two-Group t-Test of the Difference of the Means for Independent Groups -- Correlation and Simple Linear Regression -- Multiple Correlation and Multiple Regression -- One-Way Analysis of Variance (ANOVA) -- Appendix A: Answers to End-of-Chapter Practice Problems -- Appendix B: Practice Test -- Appendix C: Answers to Practice Test -- Appendix D: Statistical Formulas -- Appendix E: t-table.
Sommario/riassunto	This is the first book to show the capabilities of Microsoft Excel to teach engineering statistics effectively. It is a step-by-step exercise-driven guide for students and practitioners who need to master Excel to solve practical engineering problems. If understanding statistics isn't your strongest suit, you are not especially mathematically-inclined, or if you are wary of computers, this is the right book for you. Excel, a

widely available computer program for students and managers, is also an effective teaching and learning tool for quantitative analyses in engineering courses. Its powerful computational ability and graphical functions make learning statistics much easier than in years past. However, Excel 2013 for Engineering Statistics: A Guide to Solving Practical Problems is the first book to capitalize on these improvements by teaching students and managers how to apply Excel to statistical techniques necessary in their courses and work. Each chapter explains statistical formulas and directs the reader to use Excel commands to solve specific, easy-to-understand engineering problems. Practice problems are provided at the end of each chapter with their solutions in an Appendix. Separately, there is a full Practice Test (with answers in an Appendix) that allows readers to test what they have learned.