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Random variables are numerical values that vary randomly or unpredictably over time...AI-enhanced title and description Attribution-NonCommercial-ShareAlike CC BY-NC-SA Preface 1 Introduction 2 Data Collection 3 Elementary Descriptive Statistics 4 Describing Relationships Between Variables 5 Probability: The Mathematics of Randomness 6 Introduction to Formal Statistical Inference 7 Inference for Unstructured Multisample Studies 8 Inference for Full and Fractional Factorial Studies 9 Regression Analysis—Inference for Curve- and Surface-Fitting Appendix A: More on Probability and Model Fitting Appendix B: Tables Answers to Section Exercises Index Additional Materials: Data Sets Additional Materials: Formula Sheets In Basic Engineering Data Collection and Analysis, Stephen B. Vardeman and J. Marcus Jobe stress the practical over the theoretical. Step by step, students get real engineering data and scenario examples along with chapter-long case studies that illustrate concepts in realistic, thoroughly detailed situations. This approach encourages students to work through the material by carrying out data collection and analysis projects from problem formulation through the preparation of professional technical reports—just as if they were on the job. Steve Vardeman, Iowa State University J. Marcus Jobe, Miami Ohio University Submit ancillary resource Suggest an edit to this book record 100%(1)100% found this document useful (1 vote)77 views50 pagesThis document provides an overview of engineering data analysis and collection methods. It discusses 1) obtaining data through methods like surveys, experiments, and observation; 2) probabil...AI-enhanced title and descriptionSaveSave 410929053 MATH019A Engineering Data Analysis410929... 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