1. Record Nr. UNINA9910791041503321 Autore Ofungwu Joseph **Titolo** Statistical applications for environmental analysis and risk assessment / / Joseph Ofungwu Pubbl/distr/stampa Hoboken, New Jersey:,: John Wiley & Sons,, 2014 2014 **ISBN** 1-118-63446-2 Descrizione fisica 1 online resource (648 p.) Collana Wiley Series in Statistics in Practice Classificazione 519.15 363.7/02 363.7/02 Disciplina Soggetti Environmental risk assessment - Statistical methods Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes bibliographical references (p. 609-612) and index Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Statistical Applications for Environmental Analysis and Risk Assessment; Contents; Preface; Acknowledgements; 1. Introduction; 1.1 Introduction and Overview: 1.2 The Aim of the Book: Get Involved!; 1.3 The Approach and Style: Clarity, Clarity, Clarity; Part I: Basic Statistical Measures and Concepts; 2. Introduction to Software Packages used in this Book; 2.1 R; 2.1.1 Helpful R Tips; 2.1.2 Disadvantages of R; 2.2 ProUCL; 2.2.1 Helpful ProUCL Tips; 2.2.2 Potential Deficiencies of ProUCL; 2.3 Visual Sample Plan; 2.4 DATAPLOT; 2.4.1 Helpful Tips for Running DATAPLOT in Batch Mode 2.5 Kendall-Thiel Robust Line 2.6 Minitab®; 2.7 Microsoft Excel; 3. Laboratory Detection Limits, Non-Detects and Data Analysis; 3.1 Introduction and Overview; 3.2 Types of Laboratory Data Detection Limits; 3.3 Problems with Nondetects in Statistical Data Samples; 3.4 Options for Addressing Nondetects in Data Analysis; 3.4.1 Kaplan-Meier Estimation; 3.4.2 Robust Regression on Order Statistics; 3.4.3 Maximum Likelihood Estimation; 4. Data Sample, Data Population and Data Distribution; 4.1 Introduction and Overview; 4.2 Data Sample Versus Data Population or Universe 4.3 The Concept of a Distribution 4.3.1 The Concept of a Probability Distribution Function: 4.3.2 Cumulative Probability Distribution and Empirical Cumulative Distribution Functions: 4.4 Types of Distributions:

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