

## 12.5b Regression-Discontinuity Analysis

$$\tilde{x}_i = x_i - x_c$$

where:

$\tilde{x}_i$  = Pretest-cutoff value

$x_i$  = Pretest

$x_c$  = Cutoff value

Adjusting the pretest by subtracting the cutoff in the Regression-Discontinuity (RD) analysis model.

$$y_i = \beta_0 + \beta_1 \tilde{x}_i + \beta_2 z_i + e_i$$

where:

$y_i$  = Outcome score for the  $i^{\text{th}}$  unit

$\beta_0$  = Coefficient for the intercept

$\beta_1$  = Pretest coefficient

$\beta_2$  = Mean difference for treatment

$\tilde{x}_i$  = Pretest – cutoff value

$z_i$  = Dummy variable for treatment  
(0 = control, 1 = treatment)

$e_i$  = Residual for the  $i^{\text{th}}$  unit

The regression model for the basic regression-discontinuity design

# Basic Discontinuity Analysis

**Eugene Rozanov**



## **Basic Discontinuity Analysis:**

Discontinuity Analysis for Rock Engineering S.D. Priest, 2012-12-06 Engineers wishing to build structures on or in rock use the discipline known as rock mechanics This discipline emerged as a subject in its own right about thirty five years ago and has developed rapidly ever since However rock mechanics is still based to a large extent on analytical techniques that were originally formulated for the mechanical design of structures made from man made materials The single most important distinction between man made materials and the natural material rock is that rock contains fractures of many kinds on many scales and because the fractures of whatever kin represent breaks in the mechanical continuum they are collectively termed discontinuities An understanding of the mechanical influence of these discontinuities is essential to all rock engineers Most of the world is made of rock and most of the rock near the surface is fractured The fractures dominate the rock mass geometry deformation modulus strength failure behaviour permeability and even the local magnitudes and directions of the in situ stress field Clearly an understanding of the presence and mechanics of the discontinuities both singly and in the rock mass context is therefore of paramount importance to civil mining and petroleum engineers Bearing this in mind it is surprising that until now there has been no book dedicated specifically to the subject of discontinuity analysis in rock engineering *Discontinuities in Acoustic Wave-guide and the Reciprocity* Nick V. Solokhin, 2007 This work includes numerical analysis of discontinuities in acoustic wave guide and their properties in multi mode case It was suggested new version of reciprocity relations between wave guide modes between incident and transmitted and between incident and reflected modes This new version of reciprocity relations transforms into old one in a case of single traveling mode

**Computer Methods and Advances in Geomechanics** D. Contractor, C.S. Desai, S. Harpalani, J. Kemeny, T. Kundu, 2000-01-01 Covering a wide range of topics involving both research developments and applications resulting from the 10th International Conference on Computer Methods and Advances in Geomechanics IACMAG held in January 2001 in Tucson Arizona USA The theme of the conference was Fundamentals through Applications The up to date research results and applications in this 2 volume work 1900 pages should serve as a valuable source of information for those engaged in research analysis and design practical application and education in the fields of geomechanics and geotechnical engineering

Methods Matter Richard J. Murnane, John B. Willett, 2010-09-17 Written in clear concise prose *Methods Matter Improving Causal Inference in Educational and Social Science Research* offers essential guidance for those who evaluate educational policies Using numerous examples of high quality studies that have evaluated the causal impacts of important educational interventions the authors go beyond the simple presentation of new analytical methods to discuss the controversies surrounding each study and provide heuristic explanations that are also broadly accessible **Handbook of Supersonic Aerodynamics** Johns Hopkins University. Applied Physics Laboratory, Johns Hopkins University. Applied Physics Laboratory, Silver Spring, Md, 1950 **Regression Analysis in R** Jocelyn E. Bolin, 2022-07-27 Regression Analysis in R A

Comprehensive View for the Social Sciences covers the basic applications of multiple linear regression all the way through to more complex regression applications and extensions Written for graduate level students of social science disciplines this book walks readers through bivariate correlation giving them a solid framework from which to expand into more complicated regression models Concepts are demonstrated using R software and real data examples Key Features Full output examples complete with interpretation Full syntax examples to help teach R code Appendix explaining basic R functions Methods for multilevel data that are often included in basic regression texts End of Chapter Comprehension Exercises **NUREG/CR.** U.S. Nuclear Regulatory Commission,1980

**Development and Application of Discontinuous Modelling for Rock Engineering** Ming Lu,2021-07-28 The thirty papers published in this book represent the latest developments in Discontinuous Deformation Analysis DDA The Numerical Manifold Method NMM and other numerical methods and their applications are also covered as are the theoretical contributions of 3D DDA modelling and visualization of 3D joint systems and high order NMM Applications of these advances include the stability of underground works rock slopes and boreholes

*Complex Analysis* N.B. Singh, *Complex Analysis* is an introductory textbook designed for absolute beginners offering a clear and straightforward exploration of complex numbers and functions The book presents fundamental concepts in a step by step manner making complex analysis accessible to those with little or no prior mathematical knowledge Through practical examples and intuitive explanations readers will discover the beauty of complex functions the significance of Cauchy's integral formula and the application of power series Ideal for students and curious learners alike this book serves as a solid foundation for further studies in mathematics **Variational Methods for Discontinuous Structures** Raul

Serapioni,Franco Tomarelli,2012-12-06 In recent years many researchers in material science have focused their attention on the study of composite materials equilibrium of crystals and crack distribution in continua subject to loads At the same time several new issues in computer vision and image processing have been studied in depth The understanding of many of these problems has made significant progress thanks to new methods developed in calculus of variations geometric measure theory and partial differential equations In particular new technical tools have been introduced and successfully applied For example in order to describe the geometrical complexity of unknown patterns a new class of problems in calculus of variations has been introduced together with a suitable functional setting the free discontinuity problems and the special BV and BH functions The conference held at Villa Olmo on Lake Como in September 1994 spawned successful discussion of these topics among mathematicians experts in computer science and material scientists **Advances in Discontinuous**

**Numerical Methods and Applications in Geomechanics and Geoenvironmental Engineering** Jian Zhao,Yuzo Ohnishi,Gao-Feng Zhao,Takeshi Sasaki,2012-01-27 Rocks and soils can behave as discontinuous materials both physically and mechanically and for such discontinuous nature and behaviour there remain challenges in numerical modelling methods and techniques Some of the main discontinuum based numerical methods for example the distinct element method DEM and the discontinuous

deformation analysis      *Higher Education: Handbook of Theory and Research* John C. Smart, 2008-03-21 The Handbook series provides a compendium of thorough and integrative literature reviews on a diverse array of topics of interest to the higher education scholarly and policy communities Each chapter provides a comprehensive review of research findings on a selected topic critiques the research literature in terms of its conceptual and methodological rigor and sets forth an agenda for future research intended to advance knowledge on the chosen topic      **Ozone Evolution in the Past and Future**

Eugene Rozanov, 2021-01-21 The stratospheric ozone is important for the protection of the biosphere from the dangerous ultraviolet radiation of the sun forms the temperature and dynamical structure of the stratosphere and therefore has a direct influence on the general circulation and the surface climate The tropospheric ozone can damage the biosphere impact human health and plays a role as a powerful greenhouse gas That is why the understanding of the past and future evolution of the ozone in different atmospheric layers as well as its influence on surface UV radiation doses and human health is important The problems of preventing further destruction of the ozone layer the restoration of the ozone shield in the future and air quality remain important for society The interest in these problems was recently enhanced by the unexpected discovery of a negative ozone trend in the lower stratosphere and the appearance of a large ozone hole over the Arctic in spring 2020 This book includes papers describing several aspects of the ozone layer's state and evolution based on the recent experimental statistical and modeling works The book will be useful for readers scientists and students interested in environmental science

Principles of Engineering Geology P.B. Attewell, I.W. Farmer, 2012-12-06 Engineering geology is one of those terms that invite definition The American Geological Institute for example has expanded the term to mean the application of the geological sciences to engineering practice for the purpose of assuring that the geological factors affecting the location design construction operation and maintenance of engineering works are recognized and adequately provided for It has also been defined by W R Judd in the McGraw Hill Encyclopaedia of Science and Technology as the application of education and experience in geology and other geosciences to solve geological problems posed by civil engineering structures Judd goes on to specify those branches of the geological or geo sciences as surface or surficial geology structural fabric geology geohydrology geophysics soil and rock mechanics Soil mechanics is firmly included as a geological science in spite of the perhaps rather unfortunate trends over the years now happily being reversed towards purely mechanistic analyses which may well provide acceptable solutions for only the simplest geology Many subjects evolve through their subject areas from an interdisciplinary background and it is just such instances that pose the greatest difficulties of definition Since the form of educational development experienced by the practitioners of the subject ultimately bears quite strongly upon the corporate concept of the term engineering geology it is useful briefly to consider that educational background      Quantitative Parameterization and 3D-run-out Modelling of Rockfalls at Steep Limestone Cliffs in the Bavarian Alps Bettina Sellmeier, 2015-11-06 This pioneering work deals with the parameterization of rockfalls in the context of 3D run out

modelling at a study site in the Bavarian Alps The main objective was to cover not only low magnitude high frequency rockfalls 10 msup3 sup but also Mid Magnitude events which involve rock volumes of between 10 and 100 msup3 sup boulder falls and between 100 and 10 000 msup3 sup block falls As Mid Magnitude events have been insufficiently covered in terms of rockfall modelling up to now a geomechanical approach has been developed to characterize those events by means of a case study For a 200 msup3 sup limestone block a potential failure scenario was analysed by combining a deterministic failure analysis with a numerical process based run out model To model potential run out scenarios of the 200 msup3 sup block the beta version of the code RAMMS Rockfall developed by the Swiss Institute for Snow and Avalanche Research SLF was applied RAMMS Rockfall makes it possible to include the block shape and thus consider the effects of varying block shapes on the run out distance The run out modelling for the entire project site was performed using the scientific code Rockyfor3D Dorren ecorisQ To provide quantitative information in terms of input parameters a field recording of block sizes at the talus slope as well as a detailed discontinuity analysis at the source area were conducted The book successfully demonstrates how detailed and quantitative field investigation can contribute to 3D rockfall modelling pp *Modelling, Simulation and Software Concepts for Scientific-Technological Problems* Ernst Stephan, Peter Wriggers, 2011-04-28 The book includes different contributions that cover interdisciplinary research in the areas of Error controlled numerical methods efficient algorithms and software development Elastic and in elastic deformation processes Models with multiscales and multi physics High Performance adaptive numerical methods using finite elements FEM and boundary elements BEM are described as well as efficient solvers for linear systems and corresponding software components for non linear coupled field equations of various branches of mechanics electromagnetics and geosciences **Santa Ana River Main Stem and Santiago Creek**, 1978 *Rock Dynamics: Progress and Prospect, Volume 2* Jianchun Li, Xiaozhao Li, Minghe Ju, Fengqiang Gong, Yingxin Zhou, 2023-05-28 Rock Dynamics Progress and Prospect contains 153 scientific and technical papers presented at the Fourth International Conference on Rock Dynamics and Applications RocDyn 4 Xuzhou China 17 19 August 2022 The two volume set has 7 sections Volume 1 includes the first four sections with 6 keynotes and 5 young scholar plenary session papers and contributions on analysis and theoretical development and experimental testing and techniques Volume 2 contains the remaining three sections with 74 papers on numerical modelling and methods seismic and earthquake engineering and rock excavation and engineering Rock Dynamics Progress and Prospect will serve as a reference on developments in rock dynamics scientific research and on rock dynamics engineering applications The previous volumes in this series RocDyn 1 RocDyn 2 and RocDyn 3 are also available via CRC Press [The Second Half Century of Rock Mechanics, Three Volume Set](#) Luis Ribeiro e Sousa, Claudio Olalla, N. Grossmann, 2007-08-05 Forty one years ago the International Society for Rock Mechanics ISRM held its 1st International Congress in Lisbon Portugal In July 2007 the 11th ISRM Congress returned to Lisbon where the Portuguese Geotechnical Society SPG the Portuguese National Group of the

ISRM hosted the meeting The Second Half Century of Rock Mechanics comprises **A Performance Theory of Order and Constituency** John A. Hawkins, 1994 Major new work arguing that grammars are profoundly shaped by language processing

## Reviewing **Basic Discontinuity Analysis**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Basic Discontinuity Analysis**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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