



10.1.1. The Chain Rule

Problem Statement

Let f and g be functions of x . Find the derivative of $f(g(x))$.

Mathematical Statement

If f is a function of u and g is a function of x , then

$$f'(g(x)) \cdot g'(x) = \frac{d}{dx} f(g(x))$$

Proof: Let $u = g(x)$. Then $f(g(x)) = f(u)$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = \frac{d}{du} f(u) \cdot \frac{du}{dx}$. Since $\frac{d}{du} f(u) = f'(u)$ and $\frac{du}{dx} = g'(x)$, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x)$. \square

$$f'(g(x)) \cdot g'(x) = \frac{d}{dx} f(g(x))$$

Example: Let $f(u) = u^2$ and $g(x) = x^2$. Then $f(g(x)) = (x^2)^2 = x^4$. We have $f'(u) = 2u$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = 2(x^2) \cdot 2x = 4x^3$. We also have $\frac{d}{dx} x^4 = 4x^3$. \square

Example: Let $f(u) = \sin(u)$ and $g(x) = x^2$. Then $f(g(x)) = \sin(x^2)$. We have $f'(u) = \cos(u)$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = \cos(x^2) \cdot 2x = 2x \cos(x^2)$. \square

Example: Let $f(u) = e^u$ and $g(x) = x^2$. Then $f(g(x)) = e^{x^2}$. We have $f'(u) = e^u$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = e^{x^2} \cdot 2x = 2xe^{x^2}$. \square

Example: Let $f(u) = \ln(u)$ and $g(x) = x^2$. Then $f(g(x)) = \ln(x^2)$. We have $f'(u) = \frac{1}{u}$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = \frac{1}{x^2} \cdot 2x = \frac{2}{x}$. We also have $\frac{d}{dx} \ln(x^2) = \frac{2}{x}$. \square

Example: Let $f(u) = \tan(u)$ and $g(x) = x^2$. Then $f(g(x)) = \tan(x^2)$. We have $f'(u) = \sec^2(u)$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = \sec^2(x^2) \cdot 2x = 2x \sec^2(x^2)$. \square

Example: Let $f(u) = \arcsin(u)$ and $g(x) = x^2$. Then $f(g(x)) = \arcsin(x^2)$. We have $f'(u) = \frac{1}{\sqrt{1-u^2}}$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = \frac{1}{\sqrt{1-x^4}} \cdot 2x = \frac{2x}{\sqrt{1-x^4}}$. \square



Example: Let $f(u) = \arctan(u)$ and $g(x) = x^2$. Then $f(g(x)) = \arctan(x^2)$. We have $f'(u) = \frac{1}{1+u^2}$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = \frac{1}{1+x^4} \cdot 2x = \frac{2x}{1+x^4}$. \square

Example: Let $f(u) = \sec(u)$ and $g(x) = x^2$. Then $f(g(x)) = \sec(x^2)$. We have $f'(u) = \sec(u) \tan(u)$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = \sec(x^2) \tan(x^2) \cdot 2x = 2x \sec(x^2) \tan(x^2)$. \square

Example: Let $f(u) = \csc(u)$ and $g(x) = x^2$. Then $f(g(x)) = \csc(x^2)$. We have $f'(u) = -\csc(u) \cot(u)$ and $g'(x) = 2x$. By the chain rule, we have $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x) = -\csc(x^2) \cot(x^2) \cdot 2x = -2x \csc(x^2) \cot(x^2)$. \square

Math A160 Introduction To Statistics

SJ Ball



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Mathematical Reviews, 1987 **Computational Statistics in the Earth Sciences** Alan D. Chave, 2017-10-19 Based on a course taught by the author this book combines the theoretical underpinnings of statistics with the practical analysis of Earth sciences data using MATLAB The book is organized to introduce the underlying concepts and then extends these to the data covering methods that are most applicable to Earth sciences Topics include classical parametric estimation and hypothesis testing and more advanced least squares based nonparametric and resampling estimators Multivariate data analysis not often encountered in introductory texts is presented later in the book and compositional data is treated at the end Datasets and bespoke MATLAB scripts used in the book are available online as well as additional datasets and suggested questions for use by instructors Aimed at entering graduate students and practicing researchers in the Earth and ocean sciences this book is ideal for those who want to learn how to analyse data using MATLAB in a statistically rigorous manner

Probability and Statistics in Geodesy and Geophysics Ludmila Kubáčková, Lubomír Kubáček, Ján Kukuča, 1987 The purpose of data processing is to obtain in explicit form maximum information on the object of the data measurements This is accomplished by the use of suitable models based on the most up to date knowledge of the theory of probability and mathematical statistics The need to constantly improve models for processing data sets is stimulated by the rapid development of geodetic and geophysical measurement techniques on the one hand and the possibilities of contemporary computer techniques on the other The reasons for the incessant improvement of mathematical models are both gnostic and economic experiments in particular are time consuming and expensive to prepare and carry out moreover they may be unique and impossible to repeat To develop an effective method for preparing such experiments and a correct procedure for processing the results is a theoretically exacting although least costly part of the whole process of preparation realization and the evaluation of the measurements The purpose of this book is to acquaint the reader with the mathematical methods in use at present including those being developed and applied in advanced geodetic and geophysical centres **Government**

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matter physicists metallurgists and applied mathematicians will find this a stimulating and valuable book on an important topic Referativnyi zhurnal ,1985 *Government Reports Annual Index* ,1986 **Introduction to Statistics** Gottfried E. Noether,2012-09-27 The introductory statistics course presents serious pedagogical problems to the instructor For the great majority of students the course represents the only formal contact with statistical thinking that he or she will have in college Students come from many different fields of study and a large number suffer from math anxiety Thus an instructor who is willing to settle for some limited objectives will have a much better chance of success than an instructor who aims for a broad exposure to statistics Many statisticians agree that the primary objective of the introductory statistics course is to introduce students to variability and uncertainty and how to cope with them when drawing inferences from observed data Additionally the introductory Course should enable students to handle a limited number of useful statistical techniques The present text which is the successor to the author's *Introduction to Statistics A Nonparametric Approach* Houghton Mifflin Company Boston 1976 tries to meet these objectives by introducing the student to the basic ideas of estimation and hypothesis testing early in the course after a rather brief introduction to data organization and some simple ideas about probability Estimation and hypothesis testing are discussed in terms of the two sample problem which is both conceptually simpler and more realistic than the one sample problem that customarily serves as the basis for the discussion of statistical inference **Science Citation Index** ,1993 Vols for 1964 have guides and journal lists Introduction to Statistics Howard B. Christensen,Andrew S. Gibbons,1973 Foundations of Mathematics and Statistics Timothy C. Kearns,2019-01-26 *Foundations of Mathematics and Statistics* is a summary of the basic principles of math and statistics for students that are interested in pursuing studies in the mathematical sciences The first goal is to provide a good foundation of knowledge and ability with the basics of mathematics This includes logic sets number systems algebra geometry trigonometry and the calculus Then the remainder of the book deals with the fundamental topics of applied and mathematical statistics including probability random variables expected value samples distributions hypothesis testing confidence intervals and an introduction to linear regression and correlation The book can be used by all students that need a summary of math fundamentals with a sound introduction to the basics of statistical thinking and methodology Those that need a good familiarity with math and statistics would find this book a valuable supplemental reading along with the fair amount of exercises that are included in order to reinforce the important ideas **Introduction to Mathematical Statistics** Paul G. Hoel,1984-01-31 A balanced presentation of both theoretical and applied material with numerous problem sets to illustrate important concepts Demonstrates the use of computers and calculators to facilitate problem solving as well as numerous applications to illustrate basic theory Introduction to Mathematical Statistics Robert V. Hogg,Joseph W. McKean,Allen Thornton Craig,2005 For one or two semester undergraduate mathematical statistics course or for beginning graduate courses in mathematical statistics This classic text retains its outstanding features and continues to provide students with

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