

Optimization

What to do

- 1) Draw a picture and understand what you are asked to find
- 2) State your primary equation
- 3) State your constraint equation
- 4) Substitute your constraint equation into your primary equation
- 5) Take the derivative and set it equal to 0 to find your zeros
- 6) Solve for any other variables if necessary
- 7) State your final answer

Example

Find the dimensions of the largest rectangle inscribed in a semicircle of radius 4.

$$A = 2xy$$

$$x^2 + y^2 = 4^2$$

$$y^2 = 16 - x^2$$

$$y = \pm\sqrt{16 - x^2}$$

$$y = \sqrt{16 - x^2}$$

$$A = 2x\sqrt{16 - x^2}$$

$$A = 2x(16 - x^2)^{1/2}$$

$$A' = 2x \cdot \frac{1}{2}(16 - x^2)^{-1/2} \cdot (-2x) + 2(16 - x^2)^{1/2}$$

$$A' = \frac{-2x^2}{\sqrt{16 - x^2}} + 2\sqrt{16 - x^2}$$

$$0 = \frac{-2x^2}{\sqrt{16 - x^2}} + \frac{2(16 - x^2)}{\sqrt{16 - x^2}}$$

$$0 = \frac{-2x^2}{\sqrt{16 - x^2}} + \frac{2(16 - x^2)}{\sqrt{16 - x^2}}$$

$$0 = \frac{32 - 4x^2}{\sqrt{16 - x^2}}$$

$$x = \pm\sqrt{8}$$

$$x = \sqrt{8}$$

$$\Rightarrow y = \sqrt{8}$$



Related Rates

What to do

- 1) Draw a picture and understand what you are asked to find
- 2) Write an equation that relates all of the variables
- 3) Differentiate (implicitly) the equation with respect to t
- 4) Substitute all known values and solve for the missing rate. (Do not substitute in any values that are changing until after you have taken the derivative)
- 5) Evaluate and state your final answer

Example

A water tank is in the shape of an inverted circular cone with a diameter of 4 meters and a height 5 meters. Water is being pumped into the tank at a rate of 2 cubic meters per minute. Find the rate at which the water level is rising when the water is 3 meters deep.



$$V = \frac{1}{3}\pi r^2 h$$

$$V = \frac{1}{3}\pi \left(\frac{1}{5}h\right)^2 h$$

$$V = \frac{1}{3}\pi \left(\frac{1}{25}h^3\right)$$

$$V = \frac{1}{75}\pi h^3$$

$$\frac{dV}{dt} = \frac{12}{75}\pi h^2 \cdot \frac{dh}{dt}$$

$$4 = \frac{12}{75}\pi (3)^2 \cdot \frac{dh}{dt}$$

$$4 = \frac{108}{75}\pi \cdot \frac{dh}{dt}$$

$$\frac{300}{108} = \pi \cdot \frac{dh}{dt}$$

$$\frac{300}{108\pi} = \frac{dh}{dt}$$

Common Equation Types

1. Area/Volume formulas

2. Pythagorean theorem

3. Similar shapes

Optimization 1979 Ap Calculus

**Jean-Baptiste Hiriart-Urruty, Claude
Lemaréchal**



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The Calculus of Variations and Optimal Control George Leitmann, 2013-06-29 When the Tyrian princess Dido landed on the North African shore of the Mediterranean sea she was welcomed by a local chieftain. He offered her all the land that she could enclose between the shoreline and a rope of knotted cowhide. While the legend does not tell us, we may assume that Princess Dido arrived at the correct solution by stretching the rope into the shape of a circular arc and thereby maximized the area of the land upon which she was to found Carthage. This story of the founding of Carthage is apocryphal. Nonetheless, it is probably the first account of a problem of the kind that inspired an entire mathematical discipline: the calculus of variations and its extensions such as the theory of optimal control. This book is intended to present an introductory treatment of the calculus of variations in Part I and of optimal control theory in Part II. The discussion in Part I is restricted to the simplest problem of the calculus of variations. The topic is entirely classical; all of the basic theory had been developed before the turn of the century. Consequently, the material comes from many sources; however, those most useful to me have been the books of Oskar Bolza and of George M. Ewing. Part II is devoted to the elementary aspects of the modern extension of the calculus of variations: the theory of optimal control of dynamical systems.

Problems of Reducing the Exhaustive Search Vladik Kreinovich, 1997 This collection contains translations of papers on propositional satisfiability and related logical problems which appeared in *Problemy Sokrashcheniya Perebora* published in Russian in 1987 by the Scientific Council Cybernetics of the USSR Academy of Sciences. The problems form the nucleus of this intensively developing area. This translation is dedicated to the memory of two remarkable Russian mathematicians: Sergei Maslov and his wife Nina Maslova. Maslov is known as the originator of the universe method in automated deduction, which was discovered at the same time as the resolution method of J. A. Robinson and has approximately the same range of applications. In 1981 Maslov proposed an iterative algorithm for propositional satisfiability based on some general ideas of search described in detail in his posthumously published book *Theory of Deductive Systems and Its Applications* (1986, English, 1987). This collection contains translations of papers on propositional satisfiability and related logical problems. The papers related to Maslov's iterative method of search reduction play a significant role.

Optimization—Theory and Applications L. Cesari, 2012-12-06 This book has grown out of lectures and courses in calculus of variations and optimization taught for many years at the University of Michigan to graduate students at various stages of their careers and always to a mixed audience of students in mathematics and engineering. It attempts to present a balanced view of the subject, giving some emphasis to its connections with the classical theory and to a number of those problems of economics and engineering which have motivated so many of the present developments, as well as presenting aspects of the current theory, particularly value theory and existence theorems. However, the presentation of the theory is connected to and accompanied by many concrete problems of optimization, classical and modern, some more technical and some less so, some discussed in detail and some only sketched or

proposed as exercises No single part of the subject such as the existence theorems or the more traditional approach based on necessary conditions and on sufficient conditions or the more recent one based on value function theory can give a sufficient representation of the whole subject This holds particularly for the existence theorems some of which have been conceived to apply to certain large classes of problems of optimization For all these reasons it is essential to present many examples Chapters 3 and 6 before the existence theorems Chapters 9 and 11 16 and to investigate these examples by means of the usual necessary conditions sufficient conditions and value function theory

AP Calculus Dennis Donovan, David Bock, Shirley O. Hockett, 2020-07-14 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Calculus AB BC 2020 2021 includes in depth content review and practice for both AB and BC exams It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exams Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 8 full length practice tests 4 AB practice tests and 4 BC practice tests including a diagnostic AB test and a diagnostic BC test to target your studying Strengthen your knowledge with in depth review covering all Units on the AP Calculus AB Exam and all Units on the AP Calculus BC Exam Reinforce your learning with practice questions at the end of each chapter

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Library of Congress Catalogs Library of Congress, 1980

Nondifferential and Variational Techniques in Optimization Danny C. Sorensen, Roger J.-B. Wets, 1982

Satisfiability Problem: Theory and Applications Dingzhu Du, Jun Gu, Panos M. Pardalos, NSF Science and Technology Center in Discrete Mathematics and Theoretical Computer Science, 1997 The satisfiability SAT problem is central in mathematical logic computing theory and many industrial applications There has been a strong relationship between the theory the algorithms and the applications of the SAT problem This book aims to bring together work by the best theorists algorithmists and practitioners working on the sat problem and on industrial applications as well as to enhance the interaction between the three research groups The book features the applications of theoretical algorithmic results to practical problems and presents practical examples for theoretical algorithmic study Major topics covered in the book include practical and industrial SAT problems and benchmarks significant case studies and applications of the SAT problem and SAT algorithms new algorithms and improved techniques for satisfiability testing specific data structures and implementation details of the SAT algorithms and the theoretical study of the SAT problem and SAT algorithms

Mathematical Programming Study, 1982

A Relaxation-Based Approach to Optimal Control of Hybrid and Switched Systems Vadim Azhmyakov, 2019-02-14 A

Relaxation Based Approach to Optimal Control of Hybrid and Switched Systems proposes a unified approach to effective and numerically tractable relaxation schemes for optimal control problems of hybrid and switched systems The book gives an overview of the existing conventional and newly developed relaxation techniques associated with the conventional systems described by ordinary differential equations Next it constructs a self contained relaxation theory for optimal control processes governed by various types sub classes of general hybrid and switched systems It contains all mathematical tools necessary for an adequate understanding and using of the sophisticated relaxation techniques In addition readers will find many practically oriented optimal control problems related to the new class of dynamic systems All in all the book follows engineering and numerical concepts However it can also be considered as a mathematical compendium that contains the necessary formal results and important algorithms related to the modern relaxation theory Illustrates the use of the relaxation approaches in engineering optimization Presents application of the relaxation methods in computational schemes for a numerical treatment of the sophisticated hybrid switched optimal control problems Offers a rigorous and self contained mathematical tool for an adequate understanding and practical use of the relaxation techniques Presents an extension of the relaxation methodology to the new class of applied dynamic systems namely to hybrid and switched control systems

Encyclopedia of Optimization Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling

Fundamentals of Convex Analysis Jean-Baptiste Hiriart-Urruty, Claude Lemaréchal, 2004-04-21 This book is an abridged version of the two volumes Convex Analysis and Minimization Algorithms I and II Grundlehren der mathematischen Wissenschaften Vol 305 and 306 It presents an introduction to the basic concepts in convex analysis and a study of convex minimization problems with an emphasis on numerical algorithms The backbone of both volumes was extracted some material deleted which was deemed too advanced for an introduction or too closely attached to numerical algorithms Some exercises were included and finally the index has been considerably enriched making it an excellent choice for the purpose of learning and teaching **Subject Catalog, 1980** Library of Congress, 1980 *Electromagnetic Modelling and Measurements for*

Analysis and Synthesis Problems B. de Neumann, 2012-12-06 In this volume is presented the proceedings of a NATO Advanced Study Institute ASI on the theme of Electromagnetic Modelling and Measurements for Analysis and Synthesis Problems The ASI was held at 11 Ciocco Castelveccchio Pascoli Tuscany Italy August 10th 21st 1987 It has been my good fortune to act as co director of two of Jozef's previous ASIs and so I am well acquainted with the JKS format for ASIs As

participants will realise I did not attend this ASI and so I only have a partial appreciation of the programme In particular it has not been possible to include transcripts of any panel discussions which may have taken place Readers may recall that such transcripts have formed a most interesting and useful part of previous ASI proceedings edited by Jozef Skwirzynski and helped to convey the spirit of the meetings Unfortunately it has proved impossible to locate the tapes despite the best efforts of Jozef s assistant Barry Stuart A further difficulty has arisen through the untimely death of Jozef s former deputy and colleague at GEC Research Ed Pacello who assisted Jozef with the organisation of the precursor of this ASI The following is taken from original material relating to the aims of the Advanced Study Institute

PURPOSE OF THE INSTITUTE This Institute is concerned with computer modelling and with experimental measurements as two complementary tools for both analysis and synthesis of electromagnetics EM infra red IR and optical problems

Subject Catalog Library of Congress,1980

Scientific and Technical Aerospace Reports ,1983

Hemivariational Inequalities Panagiotis D. Panagiotopoulos,2012-12-06 The aim of the present book is the formulation mathematical study and numerical treatment of static and dynamic problems in mechanics and engineering sciences involving nonconvex and nonsmooth energy functions or nonmonotone and multivalued stress strain laws Such problems lead to a new type of variational forms the hemivariational inequalities which also lead to multivalued differential or integral equations Innovative numerical methods are presented for the treatment of realistic engineering problems This book is the first to deal with variational theory of engineering problems involving nonmonotone multivalued relations their mechanical foundation their mathematical study existence and certain approximation results and the corresponding eigenvalue and optimal control problems All the numerical applications give innovative answers to as yet unsolved or partially solved engineering problems e g the adhesive contact in cracks the delamination problem the sawtooth stress strain laws in composites the shear connectors in composite beams the semirigid connections in steel structures the adhesive grasping in robotics etc The book closes with the consideration of hemivariational inequalities for fractal type geometries and with the neural network approach to the numerical treatment of hemivariational inequalities

Subject Catalog, 1979 Library of Congress,1979

Parallel Processing of Discrete Problems Panos M. Pardalos,2012-12-06 In the past two decades breakthroughs in computer technology have made a tremendous impact on optimization In particular availability of parallel computers has created substantial interest in exploring the use of parallel processing for solving discrete and global optimization problems The chapters in this volume cover a broad spectrum of recent research in parallel processing of discrete and related problems The topics discussed include distributed branch and bound algorithms parallel genetic algorithms for large scale discrete problems simulated annealing parallel branch and bound search under limited memory constraints parallelization of greedy randomized adaptive search procedures parallel optical models of computing randomized parallel algorithms general techniques for the design of parallel discrete algorithms parallel algorithms for the solution of quadratic assignment and satisfiability problems The book

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Applied Mechanics Reviews ,1969

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