

Optimization Problems

2. A rectangular field is bounded by a fence on 3 sides and a straight stream on the fourth side. Find the dimensions of the field with the maximum area that can be enclosed with 1000 feet of fence.

$$x = \text{width}$$

$$y = 1000 - 2x$$

$$x = 250 \text{ ft}$$

$$y = \text{length}$$

$$A = x(1000 - 2x)$$

$$2x + y = 1000$$

$$A = 1000x - 2x^2$$

$$\frac{d^2 p}{dx^2} = -4 < 0$$

$$A = x y$$

$$\frac{dp}{dx} = 1000 - 4x$$

$$0 = 1000 - 4x$$



Since the second derivative is negative at a critical point, 250 ft x 500 ft will be the maximum area.

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United States Naval Academy



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Mathematical Control Theory John B. Baillieul, J.C. Willems, 2012-12-06 This volume on mathematical control theory contains high quality articles covering the broad range of this field The internationally renowned authors provide an overview of many different aspects of control theory offering a historical perspective while bringing the reader up to the very forefront of current research

Geometric Optimization and Computational Complexity Chanderjit Bajaj, 1984 Our purpose here is to study problems involving geometric optimization namely questions of the type Is there at least a minimum or at most a maximum number of certain geometric figures that are within certain distances of other figures objects We are also concerned with the optimization of the size of these geometric figures These problems arise as geometric reductions from various classes of location allocation optimization problems and are inherently not pure combinatorial Our primary aim then is to discover techniques of dealing with such geometric optimization problems while adapting to these problems the older combinatorial design and analysis methods

Technical Report, 1984

Encyclopaedia of Mathematics Michiel Hazewinkel, 1997-08-31 This is the first Supplementary volume to Kluwer's highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available

Catalog United States Naval Academy, 1990

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University of Michigan Official Publication University of Michigan, 1989 Each number is the catalogue of a specific school or college of the University

Master's Theses in Science, 1952 Barton Bledsoe, 1954

Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1986

Mathematical Reviews, 2006

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 2008

Undergraduate Catalog North Carolina State University, 1975

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Tomita-Takesaki Theory in Algebras of Unbounded Operators Atsushi Inoue, 1998-11-18 These notes are devoted to a systematic study of developing the Tomita Takesaki theory for von Neumann algebras in unbounded operator algebras called O algebras and to its applications to quantum physics The notions of standard generalized vectors and standard weights for an O algebra are introduced and they lead to a Tomita Takesaki theory of modular automorphisms The Tomita Takesaki theory in O algebras is applied to quantum moment problem quantum statistical mechanics and the Wightman quantum field theory This will be of interest to graduate students and researchers in the field of unbounded operator algebras and mathematical physics

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