

## Calculus Optimization Problems/Related Rates Problems Solutions

- 1) A farmer has 400 yards of fencing and wishes to fence three sides of a rectangular field (the fourth side is along an existing stone wall, and needs no additional fencing). Find the dimensions of the rectangular field of largest area that can be fenced.

$$2x + y = 400 \Rightarrow y = 400 - 2x$$

$$A(x) = x(400 - 2x) = 400x - 2x^2$$

$$A'(x) = 400 - 4x \quad 400 - 4x = 0 \Rightarrow x = 100$$

$$A''(x) = -4$$

By the 2<sup>nd</sup> derivative test, the dimensions would be 100 yd by 200 yd.

- 2) A metal box (without a top) is to be constructed from a square sheet of metal that is 20 cm on a side by cutting square pieces of the same size from the corners of the sheet and then folding up the sides. Find the dimensions of the box with the largest volume that can be constructed in this manner.

$$V(x) = x(20 - 2x)(20 - 2x) = 400x - 80x^2 + 4x^3$$

$$V'(x) = 400 - 160x + 12x^2$$

$$400 - 160x + 12x^2 = 0 \Rightarrow 4(100 - 40x + 3x^2) = 0 \Rightarrow 4(3x - 10)(x - 10) \Rightarrow x = \frac{10}{3}, 10$$

$$V''(x) = -160 + 24x \quad V''\left(\frac{10}{3}\right) = -160 + 80 < 0 \quad V''(10) = -160 + 240 > 0$$

By the 2<sup>nd</sup> derivative test, the dimensions would be  $\frac{10}{3}$  cm by  $\frac{40}{3}$  cm by  $\frac{40}{3}$  cm

- 3) A rectangular field adjacent to a river is to be enclosed. Fencing along the river costs \$5 per meter, and the fencing for the other sides costs \$3 per meter. The area of the field is to be 1200 square meters. Find the dimensions of the field that is the least expensive to enclose.

Call the length of fence along the river  $x$ , and the length perpendicular to the river  $y$ .

$$C(x) = 5x + 3(2y + x) \quad xy = 1200 \Rightarrow y = \frac{1200}{x} \Rightarrow C(x) = 8x + \frac{7200}{x}$$

$$C'(x) = 8 - \frac{7200}{x^2} \quad 8 - \frac{7200}{x^2} = 0 \Rightarrow 8x^2 = 7200 \Rightarrow x^2 = 900 \Rightarrow x = 30$$

$$C''(x) = \frac{14400}{x^3} \quad C''(30) = \frac{14400}{30^3} > 0$$

By the 2<sup>nd</sup> derivative test, a field that is 30 m along the river by 40 m perpendicular to the river would be least expensive.

- 4) A 4-meter length of stiff wire is cut in two pieces. One piece is bent into the shape of a square and the other into a rectangle whose length is 3 times its width. Let  $x$  be the length of the side of the square.

a) Find a formula  $A(x)$ , the sum of the areas of the square and rectangle, in terms of the variable  $x$ .

The length of wire left for the rectangle is  $4 - 4x$ . In the rectangle,  $l = 3w$ .  $4 - 4x = 2(3w) + 2w$ ,

$$\text{so } w = \frac{4 - 4x}{8} = \frac{1 - x}{2} \Rightarrow l = \frac{3 - 3x}{2} \quad A(x) = x^2 + \left(\frac{3 - 3x}{2}\right)\left(\frac{1 - x}{2}\right)$$

# Calculus Optimization Problems And Solutions Galois

**Xiaolong Qi**



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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 Master's Theses in Science, 1952 Barton Bledsoe, 1954 **University of Michigan Official Publication** University of Michigan, 1989 Each number is the catalogue of a specific school or college of the University

Catalogue United States Naval Academy, 1990 Mathematical Reviews, 2006 Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1986 **Dissertation Abstracts International**, 2006 *Undergraduate Catalog* North Carolina State University, 1975 *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society, 2008 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

**Catalog** Florida International University, 1992 *U.S. Government Research & Development Reports*, 1969 **Bibliography of Scientific and Industrial Reports**, 1969-05 **University of Colorado at Denver Catalog** University of Colorado at Denver, 2009 **American Doctoral**

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*General Catalogue* University of California, Riverside,1975

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