

Problems Set 5

Due Date: Tues. 11/24/2010

These questions are taken from the 2007
IMC. (This is after the midterm.)

17. **Manufacturing, Modeling, and Weak Extensions Defined:** Suppose that the game strategy σ^* is manufacturing stable. Is it possible that there is some other game strategy that results in more profit? Is it possible that there is some other game strategy that is only weakly dominated by σ^* ? Briefly explain your answer.

18. **Manufacturing Modeling and Private Market Equilibria Defined from Above:** Given each the following symmetric two-player game, find a pure-strategy Nash equilibrium if it is in it. If there is more than one Nash equilibrium, then choose if that Nash equilibrium is more efficient than the other Nash equilibrium. Give the amount demanded by the player who demanded less and the player who demanded more for all other players. That is,

$$\text{Player } i \text{ is } \begin{cases} \text{low} & \text{if } x_i \leq 1 \\ \text{high} & \text{if } x_i > 1 \end{cases}$$

(a) Find the Nash-equilibrium strategy for this game and list all the symmetric pure-strategy Nash equilibria. Are they efficient? Explain.

(b) Which pure strategies are manufacturing stable against pure strategy best-response?

(c) How would your answer to part (a) change if a possible demand was added to the other pure strategies (keeping the same Nash result)?

(d) How would your answer to part (a) change if the player who had asked to be the designer by preference keeping the setup? Are the results?

19. **Efficient Equilibria:** Show the symmetric Nash-equilibrium.

$$u_i(x) = \frac{1}{2} \ln(x_i) + \frac{1}{2} \ln(x_j)$$

(a) Find all the symmetric Nash equilibria, including any manufacturing equilibria.

(b) Find all the manufacturing stable strategies, including manufacturing (i.e., efficient) and non-manufacturing (i.e., not efficient).

Ben Polak Problem Set Solutions

Dimitri Bertsekas



Ben Polak Problem Set Solutions:

Weakening the Sure-thing Principle Simon Grant, Atsushi Kajii, Ben Polak, 1997 Nonlinear Programming Dimitri Bertsekas, 2016-09-01 This book provides a comprehensive and accessible presentation of algorithms for solving continuous optimization problems. It relies on rigorous mathematical analysis but also aims at an intuitive exposition that makes use of visualization where possible. It places particular emphasis on modern developments and their widespread applications in fields such as large scale resource allocation problems, signal processing and machine learning. The 3rd edition brings the book in closer harmony with the companion works *Convex Optimization Theory* (Athena Scientific 2009), *Convex Optimization Algorithms* (Athena Scientific 2015), *Convex Analysis and Optimization* (Athena Scientific 2003) and *Network Optimization* (Athena Scientific 1998). These works are complementary in that they deal primarily with convex (possibly nondifferentiable) optimization problems and rely on convex analysis. By contrast, the nonlinear programming book focuses primarily on analytical and computational methods for possibly nonconvex differentiable problems. It relies primarily on calculus and variational analysis yet it still contains a detailed presentation of duality theory and its uses for both convex and nonconvex problems. This online edition contains detailed solutions to all the theoretical book exercises. Among its special features, the book provides extensive coverage of iterative optimization methods within a unifying framework. Covers in depth duality theory from both a variational and a geometric point of view. Provides a detailed treatment of interior point methods for linear programming. Includes much new material on a number of topics such as proximal algorithms, alternating direction methods of multipliers and conic programming. Focuses on large scale optimization topics of much current interest such as first order methods, incremental methods and distributed asynchronous computation and their applications in machine learning, signal processing, neural network training and big data applications. Includes a large number of examples and exercises. Was developed through extensive classroom use in first year graduate courses.

Multiobjective Decision Making Vira Chankong, Yacov Y. Haimes, 2008-02-04 This first rate text explores the theory and methodology of systems engineering in evaluating alternative courses of action and associated decision making policies. It treats criteria as multidimensional rather than scalar in the development of normative theories. These contribute to a behavioral theory of decision making and provide guidance for exercising judgment. An introductory discussion of the systemic approach to judgment and decision is followed by explorations of psychological value measurements, utility, classical decision analysis and vector optimization theory. The second section chiefly deals with methods of assessing and evaluating alternatives including both noninteractive and interactive methods. A taxonomy and a comparative evaluation of methods conclude the text.

Mathematical Reviews, 2001 **Encyclopaedia of Mathematics, Supplement III** Michiel Hazewinkel, 2007-11-23 This is the third supplementary volume to Kluwer's highly acclaimed twelve volume *Encyclopaedia of Mathematics*. This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the

previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available *Managerial Planning* Charles S. Tapiero,2018-04-17 Originally published in 1977 Management is a dynamic process reflected in three essential functions management of time change and people The book provides a bridging gap between quantitative theories imbedded in the systems approach and managerial decision making over time and under risk The conventional wisdom that management is a dynamic process is rendered operational This title will be of interest to students of business studies and management *The Partitioned Multiobjective Risk Method* Yacov Y. Haimes,1989 *Systems & Control Encyclopedia: M-O* ,1987 This comprehensive reference work provides information on what systems thinking comprises and how it is being used to understand and to attack a wide spectrum of diverse problems ranging from for example the control of servo mechanisms to applications of space technology *Multigrid Methods III* HACKBUSCH,TROTTENBER,2013-11-22 These proceedings contain a selection of papers presented at the Third European Conference on Multigrid Methods which was held in Bonn on October 1 4 1990 Following conferences in 1981 and 1985 a platform for the presentation of new Multigrid results was provided for a third time Multigrid methods no longer have problems being accepted by numerical analysts and users of numerical methods on the contrary they have been further developed in such a successful way that they have penetrated a variety of new fields of application The high number of 154 participants from 18 countries and 76 presented papers show the need to continue the series of the European Multigrid Conferences The papers of this volume give a survey on the current Multigrid situation in particular they correspond to those fields where new developments can be observed For example several papers study the appropriate treatment of time dependent problems Improvements can also be noticed in the Multigrid approach for semiconductor equations The field of parallel Multigrid variants having been started at the second European Multigrid Conference is now at the centre of interest *Index of Mathematical Papers* ,1973 *School* ,1904 *SIAM Journal on Control and Optimization* Society for Industrial and Applied Mathematics,1996 **Concise Encyclopedia of Environmental Systems** P.C. Young,1993-08-09 The Concise Encyclopedia of Environmental Systems provides a concise overview of the current state of the art in the study of environmental systems Contains specially commissioned articles and updated and revised articles from the acclaimed Systems atmospheric processes and air quality ecosystems environmental chemistry geology soil processes and geophysics hydrology fluid dynamics and water quality marine processes meteorology and climatology In addition many of the articles cover the methodological procedures used in environmental systems analysis with contributions on automatic control and management computers in modelling and management environmental planning environmetric methods including time series analysis mathematical modelling including data based physically based and simulation modelling remote sensing and image processing uncertainty in environmental systems and sensitivity analysis The

encyclopedia is extensively cross referenced on two levels to articles of direct relevance as well as to other articles which will provide the reader with more general background information Transportation Network Modeling 2003 ,2003 Large Scale Systems ,1983 *Duality Theory in Multiple Objective Convex Programming* Wenxian Chen,1980 **Transportation Research Record** ,2003 *Proceedings of the 24th IEEE Conference on Decision & Control* ,1985 *Aanwinsten van de Centrale Bibliotheek (Queteletfonds)* Bibliothèque centrale (Fonds Quetelet),1999 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1981 Issues for 1973 cover the entire IEEE technical literature

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