

DONALD M. TOPKIS

SUPERMODULARITY  
AND  
COMPLEMENTARITY

# Supermodularity And Complementarity

**Steffen Hörnig**



## **Supermodularity And Complementarity:**

*Supermodularity and Complementarity* Donald M. Topkis,1998-05-03 This is a compact presentation of a large body of research that has been published over the last several decades The material is almost entirely self contained so that a reader with the proper mathematical background can have access to virtually all of the technical results in this field in a compact and organized framework

*Supermodularity and Complementarity* Donald M. Topkis,2011-02-11 The economics literature is replete with examples of monotone comparative statics that is scenarios where optimal decisions or equilibria in a parameterized collection of models vary monotonically with the parameter Most of these examples are manifestations of complementarity with a common explicit or implicit theoretical basis in properties of a super modular function on a lattice Supermodular functions yield a characterization for complementarity and extend the notion of complementarity to a general setting that is a natural mathematical context for studying complementarity and monotone comparative statics Concepts and results related to supermodularity and monotone comparative statics constitute a new and important formal step in the long line of economics literature on complementarity This monograph links complementarity to powerful concepts and results involving supermodular functions on lattices and focuses on analyses and issues related to monotone comparative statics Don Topkis who is known for his seminal contributions to this area here presents a self contained and up to date view of this field including many new results to scholars interested in economic theory and its applications as well as to those in related disciplines The emphasis is on methodology The book systematically develops a comprehensive integrated theory pertaining to supermodularity complementarity and monotone comparative statics It then applies that theory in the analysis of many diverse economic models formulated as decision problems noncooperative games and cooperative games

**Supermodularity and Complementarity in Economics** Rabah Amir,2007 The literature on supermodular optimization and games is surveyed from the perspective of potential users in economics This methodology provides a new approach for comparative statics based only on critical assumptions and allows a general analysis of games with strategic complementarities The results are presented in a simplified yet rigorous manner without reference to lattice theory for the special case of onedimensional parameter and actions sets with the emphasis being on wide accessibility Detailed applications are presented for well known models of consumer behavior monopoly pass through Bertrand and Cournot competition strategic R D search and matching Wherever appropriate useful tricks for applications and comparative comments are inserted

**Special Issue: Supermodularity and Complementarity in Economic Theory** Rabah Amir,2019

*A Theory of Games with General Complementarities* Filippo L. Calcianno,2010-09 In the current theory of games the formal notion of complementarity that is employed is unsatisfactory because it bears too few connections with our intuitive idea of complementarity This is the starting point of the present work

**Journal of Agricultural and Resource Economics** ,2003

**Wireless Sensor Networks** Ananthram Swami,Qing Zhao,Yao-Win Hong,Lang Tong,2007-10-24 A

wireless sensor network WSN uses a number of autonomous devices to cooperatively monitor physical or environmental conditions via a wireless network Since its military beginnings as a means of battlefield surveillance practical use of this technology has extended to a range of civilian applications including environmental monitoring natural disaster prediction and relief health monitoring and fire detection Technological advancements coupled with lowering costs suggest that wireless sensor networks will have a significant impact on 21st century life The design of wireless sensor networks requires consideration for several disciplines such as distributed signal processing communications and cross layer design Wireless Sensor Networks Signal Processing and Communications focuses on the theoretical aspects of wireless sensor networks and offers readers signal processing and communication perspectives on the design of large scale networks It explains state of the art design theories and techniques to readers and places emphasis on the fundamental properties of large scale sensor networks Wireless Sensor Networks Signal Processing and Communications Approaches WSNs from a new angle distributed signal processing communication algorithms and novel cross layer design paradigms Applies ideas and illustrations from classical theory to an emerging field of WSN applications Presents important analytical tools for use in the design of application specific WSNs Wireless Sensor Networks will be of use to signal processing and communications researchers and practitioners in applying classical theory to network design It identifies research directions for senior undergraduate and graduate students and offers a rich bibliography for further reading and investigation

**Oligopoly Pricing** Xavier Vives,1999 Applies a modern game theoretic approach to develop a theory of oligopoly pricing The text relates classic contributions to the field of modern game theory and discusses basic game theoretic tools and equilibrium paying particular attention to developments in the theory of supermodular games

**Scientiae Mathematicae Japonicae**,2008

**Complementarities in Innovation Policy** Pierre A. Mohnen,Lars-Hendrik Röller,2001 Growth, Reform Indicators and Policy Complementarities Jorge Braga de Macedo,Joaquim Oliveira Martins,2006 This paper discusses the design of structural policies by relating second best results and the complementarity of reforms It computes a complementarity index based on structural reform indicators compiled by the EBRD for transition countries assuming that the run up to EU integration corresponds to a nearly complete policy cycle Using econometric panel estimates the level of reforms and changes in their complementarity are found to be positively related to output growth corrected for endogeneity and given initial conditions and the extent of macroeconomic stabilisation

*Complementarities, Comparative Statics, and Nonconvexities in Market Economies* Christina M. Shannon,1992 *Inflation, Output, and Welfare* Ricardo A. Lagos,Guillaume Rocheteau,2004 *Thesis on Pharmaceutical Marketing* Qiang Liu,2008 *Essays on R & D-races and Cournot Oligopoly* Steffen Hörnig,2000 *The Demand for Coordination* Wouter Dessein,Tano Santos,2003 This paper endogenizes coordination problems in organizations by allowing for both ex ante coordination of activities using rules and task guidelines and ex post coordination using communication and broad job assignments It shows that i Task specialization

and the division of labor is mainly limited by employee discretion rather than by the importance of coordination In particular specialization is often non monotonic in the importance of coordination ii Organizations exhibit increasing returns to ex post coordination This rationalizes discrete shifts in organizational design from very rigid and specialized task assignments to very flexible organizations characterized by extensive task bundling intensive horizontal communication and substantial employee discretion iii Broad task assignments and intensive horizontal communication are complementary Hence lower communication costs often result in less specialization      **Team Theory and Information Processing** Andrea Prat,1997

*The American Economic Review* ,2004 Includes annual List of doctoral dissertations in political economy in progress in American universities and colleges      *Cumulated Index to the Books* ,1999      *Working Paper* ,1997

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