

Introduction To Economic Cybernetics

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introduction to economic cybernetics introduces the reader to economic cybernetics that is the application of the principles of the theory of automatic control to the problems of managing the economic processes and particularly the processes in a socialist economy topics covered include the general principles of regulation and control cybernetic schemata of the theory of reproduction the theory of stability of regulation systems and a generalization of the theory of regulation this book is comprised of five chapters and begins with an overview of economic cybernetics followed by a discussion on the process of automatic regulation and how it functions with particular reference to the basic formula of the theory of regulation and cybernetic interpretation of operations on operators the following chapters focus on cybernetic schemata of the theory of reproduction the dynamics of regulation processes and the practical problems in regulation the final chapter describes a general theory of regulation formalized as a linear differential difference equation of response and gives the solution to this equation for both the homogeneous and non homogeneous versions this monograph will be a useful resource for practitioners of economics physics and mechanics

cybernetics is about having a goal and taking action to achieve that goal knowing whether you have reached your goal or at least are getting closer to it requires feedback a concept that was made rigorous by cybernetics the subject of cybernetic synergy although emanating from a socio economic experiment of economic control by cybernetic means in chile in the early 1970s has never been approached as an applied subject in its own right indeed the subject of applied cybernetics has never been addressed as a separate issue although it has been shown that the overall subject of cybernetics applies to a wide range of disciplines from biology to business via mathematics and engineering cybernetic synergy is the study of relationships and controls of and between corporate entities on an external basis and departments within corporate entities on an internal basis it concerns the

decision making process and how decisions can be made based on feedback from any part of the organization being managed it therefore concerns the issue of input of raw material or information the output of the transformed information and materials and the rectification of any issue based on negative feedback related to the productive process it investigates not only the basic theory of the subject but also its applications in the commercial and business environment as well as touching on government and administrative issues where shortcomings have emerged owing to a lack of synergy and communication there are already several books available on the subject to cybernetics but they are all concerned with mathematical approaches along with very heavy technical texts most of which are completely alien to the layman or the simple practitioner furthermore other than references to business or economic practice in some books there has never been a book published purely about the subject of applied cybernetics relating to business practices the book covers the subjects of management and economic cybernetics and how the theory of cybernetic control can be used to manage business and government functions whether small medium or large it looks at the history of cybernetics and how some pioneering cybernetic concepts were used in chile in the early 1970s to manage the chilean economy it uses these same principles along with later cybernetic models to show how such concepts can be applied to the present day economy and business practices it examines present day business practices and shows how weaknesses in these systems can be addressed and eliminated by the application of cybernetic practices the aims of the book are to provide an insight into the subject of management and business cybernetics using the principle of cybernetic synergy to resolve intra corporate issues and create more efficient business practices based on simple command and control processes essentially this book provides an in depth insight into the use of cybernetics in business and administration environments and would explain how cybernetics is a valuable tool in resolving corporate issues concerning efficiency and overall control it would give a detailed explanation of the various practices and functions involved in business operations and practices

keine ausführliche beschreibung für Ökonomische kybernetik und anwendung in der volkswirtschaft verfügbar

this volume examines concepts of central planning a cornerstone of political economy in soviet type societies it revolves around the theory of optimal planning which promised a profound modernization of stalinist style verbal planning encouraged by cybernetic dreams in the 1950s and supporting the strategic goals of communist leaders in the cold war optimal planners offered the ruling elites a panacea for the recurrent crises of the planned economy simultaneously their planning projects conveyed the pride of rational management and scientific superiority over the west the authors trace the rise and fall of the research program in the communist era in eight countries of eastern europe including the soviet union and china describing why the mission of optimization was doomed to fail and why the failure was nevertheless very slow the theorists of optimal planning contributed to the rehabilitation of mathematical culture in economic research in the communist countries and thus to a neoclassical turn in economics all over the ex communist world however because they have not rejected optimal planning as computopia there is a large space left behind for future generations to experiment with big optimal plans anew based at this time on artificial intelligence and machine learning

this introduction to the world of cybernetics provides the basics and discusses the most important thought leaders models as well as theories practical examples from the fields of biology ecology technology society and politics are used to illustrate the theoretical material questions at the end of the chapters stimulate reflection and the author does not owe the answers a central theme in all cybernetic considerations and a guiding theme of the book are information exchange and communication

how despite thirty years of effort soviet attempts to build a national computer network were undone by socialists who seemed to behave like capitalists between 1959 and 1989 soviet scientists and officials made numerous attempts to network their nation to construct a nationwide computer network none of these attempts succeeded and the enterprise had been abandoned by the time the soviet union fell apart meanwhile arpanet the american precursor to the internet went online in 1969 why did the soviet network with top level scientists and patriotic incentives

fail while the american network succeeded in how not to network a nation benjamin peters reverses the usual cold war dualities and argues that the american arpanet took shape thanks to well managed state subsidies and collaborative research environments and the soviet network projects stumbled because of unregulated competition among self interested institutions bureaucrats and others the capitalists behaved like socialists while the socialists behaved like capitalists after examining the midcentury rise of cybernetics the science of self governing systems and the emergence in the soviet union of economic cybernetics peters complicates this uneasy role reversal while chronicling the various soviet attempts to build a unified information network drawing on previously unknown archival and historical materials he focuses on the final and most ambitious of these projects the all state automated system of management ogas and its principal promoter viktor m glushkov peters describes the rise and fall of ogas its theoretical and practical reach its vision of a national economy managed by network the bureaucratic obstacles it encountered and the institutional stalemate that killed it finally he considers the implications of the soviet experience for today s networked world

this title was first published in 1968 economic development and the system of the functioning of socialist economies have become the subject matter of an increasing number of works by economists throughout the world indeed the experiences of socialist countries on different levels of social and economic development already offer a good deal of empirical material for theoretical analysis an attempt at such an analysis has been made in this book where the authors have concentrated on the investigation of a specific phenomenon in the motion of the economy so called investment cycles

this book includes high quality research papers presented at 23rd international conference on informatics in economy ie 2024 which is held in bucharest romania during may 2024 this book covers research results in business informatics and related computer science topics such as iot mobile embedded and multimedia solutions e society enterprise and business solutions databases and big data artificial intelligence data mining and machine learning quantitative economics

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