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KEY=ANALYSIS - CASSANDRA VALENCIA

The Economics of Input-Output Analysis

[Cambridge University Press](#) **Input-output analysis is the main tool of applied equilibrium analysis. This textbook provides a systematic survey of the most recent developments in input-output analysis and their applications, helping us to examine questions such as: which industries are competitive? What are the multiplier effects of an investment program? How do environmental restrictions impact on prices? Linear programming and national accounting are introduced and used to resolve issues such as the choice of technique, the comparative advantage of a national economy, its efficiency and dynamic performance. Technological and environmental spillovers are analysed, both at the national level (between industries) and the international level (the measurement of globalisation effects). The book is self-contained, but assumes some familiarity with calculus, matrix algebra, and the microeconomic principle of optimizing behaviour. Exercises and review questions are included at the end of each chapter, and solutions at the end of the book.**

Handbook of Input-Output Analysis

[Edward Elgar Publishing](#) **In this authoritative Handbook, leading experts from international statistical offices and universities explain in detail the treatment and role of input-output statistics in the System of National Accounts. Furthermore, they address the derivation of input-output coefficients for the purpose of economic and environmental modeling, the building of applied general equilibrium models, the use of these models for efficiency analysis, and the extensions to stochastic and dynamic input-output analysis. As well as revealing and exploring the theoretical foundations, the Handbook also acts as a useful guide for practitioners.**

Input-Output Analysis

Frontiers and Extensions

[Palgrave Macmillan](#) **Input-Output Analysis contains new contributions to inter-industry economics by a set of internationally respected authors. The first part sketches the current state-of-the-art, and explores the frontiers for traditional topics in input-output analysis such as interindustry linkages, feedback effects, and the composition of economic changes. The second part crosses the borders of traditional input-output analysis, covering issues that change the visualization of economic structures, the application of generalized cost functions, and the adoption of alternative modelling frameworks.**

Input-output Economics

Theory and Applications : Featuring Asian Economies

[World Scientific](#) **Thijs ten Raa, author of the acclaimed text The Economics of Input-Output Analysis, now takes the reader to the forefront of the field. This volume collects and unifies his and his co-authors' research papers on national accounting, Input-Output coefficients, economic theory, dynamic models, stochastic analysis, and performance analysis. The research is driven by the task to analyze national economies. The final part of the book scrutinizes the emerging Asian economies in the light of international competition. Sample Chapter(s). Introduction (45 KB). Chapter 1: National Accounts, Planning and Prices (108 KB). Contents: National Accounts: National Accounts, Planning and Prices; Commodity and Sector Classifications in Linked Systems of National Accounts; Accounting or Technical Coefficients: The Choice of Model in the Construction of Input-Output Coefficients Matrices; The Extraction of Technical Coefficients from Input and Output Data; Neoclassical and Classical Connections: On the Methodology of Input-Output Analysis; The Substitution Theorem; Dynamic Input-Output Analysis: Dynamic Input-Output Analysis with Distributed Activities; Applied Dynamic Input-Output with Distributed Activities; Stochastic Input-Output Analysis: Primary Versus Secondary Production Techniques in US Manufacturing; Stochastic Analysis of Input-Output Multipliers on the Basis of Use and Make Tables; Performance Analysis: A Neoclassical Analysis of TFP Using Input-Output Prices; Competition and Performance: The Different Roles of Capital and Labor; The Canadian Economy: A General Equilibrium Analysis of the Evolution of Canadian Service Productivity; The Location of Comparative Advantages on the Basis of Fundamentals Only; Asian Economies: Competitive Pressures on China: Income Inequality and Migration; Competitive Pressure on the Indian Households: A General Equilibrium Approach; and other papers. Readership: Economists at research institutes and universities, national accountants, graduate students in economics, and trade policy analysts."**

Input-Output Analysis

Foundations and Extensions

[Cambridge University Press](#) **This edition of Ronald Miller and Peter Blair's classic textbook is an essential reference for students and scholars in the input-output research and applications community. The book has been fully revised and updated to reflect important developments in the field since its original publication. New topics covered include SAMs (and extended input-output models) and their connection to input-output data, structural decomposition analysis (SDA), multiplier decompositions, identifying important coefficients, and international input-output models. A major new feature of this edition is that it is also supported by an accompanying website with solutions to all problems, wide-ranging real-world data sets, and appendices with further information for more advanced readers. Input-Output Analysis is an ideal introduction to the subject for advanced undergraduate and graduate students in a wide variety of fields, including economics, regional science, regional economics, city, regional and urban planning, environmental planning, public policy analysis and public management.**

Regional Input-Output Analysis

[SAGE Publications, Incorporated](#) **Regional Input-Output Analysis applies standard macroeconomic accounting principles to geographic and regional studies. Hewings develops an analytic framework and constructs regional input-output models. He then expands the model to consider interaction between regions. He links the model to linear programming and demographic models to provide a more sophisticated representation of reality.**

Input-output Economics

[Oxford University Press on Demand](#) **This collection of writings provides the only comprehensive introduction to the input-output model for which Leontief was awarded the Nobel Prize in 1973. The structural approach to economics developed by Leontief, and known as input-output analysis, paved the way for the transformation of economics into a truly empirical discipline that could utilize modern data processing technology. This thoroughly revised second edition includes twenty essays--twelve of which are new to this edition--that reflect the past developments and the present state of the field. Beginning with an introductory chapter, the book leads the reader into an understanding of the input-output approach--not only as formal theory but also as a research strategy and powerful tool for dealing with a complex modern economy.**

Frontiers of Environmental Input-Output Analysis

[Routledge](#) **Input-Output Analysis (IOA) is widely used in the field of ecological economics, industrial ecology, and environmental sciences. Industrial Ecology (IE) and Ecological Economics (EE) are promising and growing fields. IOA plays a crucial role in analyzing the related environmental and resource issues and providing quantitative information to many research questions and policy implications. The major aim of this book is to provide not only a comprehensive overview of environmental IOA from 1930s to the present but also the frontiers of environmental IOA including energy structural decomposition analysis, spatial energy structural decomposition analysis, multi-regional waste make-use analysis, augmented waste input-output analysis, dynamic structural decomposition analysis with product lifetime distributions, and endogenous input-output analysis with product lifetime distributions to professionals, practitioners, and students. This book presents a novel dynamic structural decomposition analysis to evaluate the effects of the product lifetime shifts and structural changes such as technological changes and final demand shifts on the life cycle energy consumptions. It also contributes to modelling a simple social accounting method with cumulative product lifetime distributions and argues how product lifetime extension affects energy consumptions and income flow throughout the entire economic**

system. The book demonstrates the author's expertise in IOA and is an essential read for students and scholars in the field.

Handbook of Input-Output Economics in Industrial Ecology

[Springer Science & Business Media](#) **Industrial Ecology (IE)** is an emerging multidisciplinary field. University departments and higher education programs are being formed on the subject following the lead of Yale University, The Norwegian University of Science and Technology (NTNU), Leiden University, University of Michigan at Ann Arbor, Carnegie Mellon University, University of California at Berkeley, Institute for Superior Technology in Lisbon, Eidgenössische Technische Hochschule (ETH) Zürich, and The University of Tokyo. IE deals with stocks and flows in interconnected networks of industry and the environment, which relies on a basic framework for analysis. Among others, Input-Output Analysis (IOA) is recognized as a key conceptual and analytical framework for IE. A major challenge is that the field of IOA manifests a long history since the 1930s with two Nobel Prize Laureates in the field and requires considerable analytical rigor. This led many instructors and researchers to call for a high-quality publication on the subject which embraces both state-of-the-art theory and principles as well as practical applications.

Input-output Analysis

Input-output Analysis and the Structure of Income Distribution

[Springer](#)

Waste Input-Output Analysis

Concepts and Application to Industrial Ecology

[Springer Science & Business Media](#) **Industrial ecology (IE)** is a rapidly growing scientific discipline that is concerned with the sustainability of industrial systems under explicit consideration of its interdependence with natural systems. In recent years, there has been an ever-increasing awareness about the applicability of Input-Output Analysis (IOA) to IE, in particular to LCA (life cycle assessment) and MFA (material flow analysis). This is witnessed in the growing number of papers at ISIE (International Society for Industrial Ecology) conferences, which use IOA, and also by the installment of subject editors on IOA in the International Journal of Life Cycle Assessment. It can be said that IE has become a major field of application for IOA. The broadening of users of IOA from various backgrounds implies a need for a self-contained textbook on IOA that can meet the needs of students and practitioners without compromising on basic concepts and the latest developments. This book was written with the aim of filling this need, and is primarily addressed to students and practitioners of IE. As the title suggests, the core contents of the book have grown out of our research in IOA of waste management issues over the last decade. We have been fascinated by the versatile nature of IOA with regard to various technical issues of waste management in particular, and to IE in general. For us (both economists by training), IOA has turned out to be extremely useful in establishing productive communication with scientists and engineers interested in IE.

The Elements of Input-output Analysis

[Random House Incorporated](#)

Handbook of Input-output Table Compilation and Analysis

Steorts (former Chair, U.S. Consumer Product Safety Commission) offers a general guide to safety, as well as a reference tool for understanding consumer safety concerns. Included are suggestions for "safety-proofing" one's home, discussions of product safety, and information on general areas of concern such as food safety, fire safety, electrical safety, poisons, outdoor safety, sport safety, holiday safety, and safety for the aged. The book also provides a behind-the-scenes account of how various organizations work to ensure the safety of consumers. Many chapters suggest other sources for more information and provide the phone numbers of product-safety organizations.

Rethinking Input-Output Analysis

A Spatial Perspective

[Springer Nature](#) This book highlights the social, economic and environmental importance of the mutual relations between industries in the same and in different regions and nations, and demonstrates how to model these relations using regional, interregional and international input-output (IO) models. It enables readers familiar with standard matrix algebra to extend these basic IO models with endogenous household expenditures, to employ supply-use tables (SUTs) that explicitly distinguish the products used and sold by industry, and to use Social Accounting Matrices (SAMs) that detail the generation, redistribution and spending of income. In addition to the standard demand-driven IO quantity model and its accompanying cost-push IO price model, the book also discusses the economic assumptions and usefulness of the supply-driven IO quantity model and its accompanying revenue-pull IO price model. The final chapters highlight three main applications of the IO model: (1) economic impact analysis of negative supply shocks as caused by, for example, natural disasters, (2) linkages, key sector and cluster analysis, (3) structural decomposition analysis, especially of regional, interregional and international growth, and demonstrate the strengths and weaknesses of these IO applications. This book appeals to economists and planners as well as scholars of regional and spatial science.

The Elements of Input-output Analysis

[Random House Incorporated](#)

Interregional Input-output Analysis of the Chinese Economy

[World Scientific](#) This book presents pioneering work on an interregional input-output table of the Chinese economy and its applications to the analysis of interregional and interindustrial relations in China. It is the fruit of the authors' joint efforts of more than five years to establish a solid basis for the analysis of interregional relations in China, in the hope of laying the foundation for further studies of regional development in that country. The book endeavors to make a contribution to the regional typology of the Chinese economy. The Chinese provinces are classified into seven large regions. The interregional input-output table is constructed accordingly. Chapter I describes the methodology for producing this interregional input-output (IRIO) table. Chapter II presents the (IRIO) table after a brief explanation of the Chinese statistical data needed for the compilation of the table. Chapter III explains the basis of seven large regions adopted for the IRIO table. Chapter IV deals with the interdependence of regions and the effects of the changes in some parameters of one region on the activities in other regions. Chapter V, the last chapter, applies the IRIO table to policy analysis. Contents: How to Construct the Interregional Input-Output Table (S Ichimura & S Xia); Interregional Input-Output Table of the Chinese Economy in 1987 (Q Li et al.); Regional Division and Features of the Chinese Economy (W Li & Z Wu); An Analysis of Interregional Dependence by the Interregional Input-Output Table (S Li et al.); Applications of Interregional Input-Output Analysis to Policy Simulation (B Li et al.). Readership: Economists working on regional problems of China; graduate students in regional or urban economics; business managers or business school students intending to do business in China."

Applications of the Input-Output Framework

[Springer](#) This book provides a fresh perspective on the ever-growing relevance of input-output analysis in problem solving. It is based on the "19th National Conference of the Input-Output Research Association of India (IORA)", held in 2017 in Mumbai, India. The conference promoted the exchange of ideas on input-output analysis and related methods among economists, government officials, policymakers, academicians and industrialists. The book captures the unique ideas of prominent scholars, extends the basic "input-output framework," analytical tool, outlines the possible impacts of some major policy decisions adopted by the Government of India, and puts forward concrete policy suggestions. In addition, it highlights the versatility of the Leontief model, which is currently being extended to cover a diverse spectrum of policy issues, ranging from agricultural productivity to science and technology and from carbon hotspots to energy and environmental consequences. A perfect blend of theory and application, the book provides a realistic outlook on sensitive economies and interdependencies between sectors.

Regional Economic Planning

Generation of Regional Input-output Analysis

[Routledge](#) Originally published in 1979. Decision makers at all levels need sufficiently detailed information on regional economic structure in order to undertake consistent and comprehensive regional planning. A means is put forward here, elevating the impracticable regional input-output method, to that of an operational planning technique. This development represents a system which facilitates the examination both of the economic structure of individual regions in reasonable detail, and of the regional structure of the

state economy. The technique, termed the Generation of Regional Input-Output Tables (GRIT), is designed for general use in the production of regional input-output tables, and other data sources contributing towards the holistic accuracy of the table, thereby providing accurate maximisation of input-output tables within a given budget constraint.

Input-output Analysis

Technical Supplement; a Collection of Papers by Members of the United States Bureau of Labor Statistics Staff

Input Output Analysis and Transportation Planning

A Collection of Papers Delivered at an Economics Seminar

Input-Output Analysis

Foundations and Extensions

[Cambridge University Press](#) This essential reference for students and scholars in the input-output research and applications community has been fully revised and updated to reflect important developments in the field. Expanded coverage includes construction and application of multiregional and interregional models, including international models and their application to global economic issues such as climate change and international trade; structural decomposition and path analysis; linkages and key sector identification and hypothetical extraction analysis; the connection of national income and product accounts to input-output accounts; supply and use tables for commodity-by-industry accounting and models; social accounting matrices; non-survey estimation techniques; and energy and environmental applications. Input-Output Analysis is an ideal introduction to the subject for advanced undergraduate and graduate students in many scholarly fields, including economics, regional science, regional economics, city, regional and urban planning, environmental planning, public policy analysis and public management.

Frontiers of Input-output Analysis

[Oxford University Press, USA](#) This collection of articles by thirty-five prominent economists, regional scientists, and geographers from nine countries includes contributions from Lawrence R. Klein, Clopper Almon, Faye Duchin, Yasuhiko Torii, Peter Nijkamp, Jeffery Round, Edward Wolff, Geoffrey J.D. Hewings, and Benjamin Stevens. The book makes available for the first time recent research using Nobel Laureate Wassily Leontief's theory of input-output analysis. Topics discussed include input-output and econometric models; alternative accounting frameworks; extended models and multiplier decompositions; regional, interregional, and international issues; measurement error and data scarcity; and measurement and implications of technological change

Routledge Handbook of Ecological Economics

Nature and Society

[Taylor & Francis](#) Since becoming formally established with an international academic society in the late 1980s, ecological economics has advanced understanding of the interactions between social and biophysical reality. It initially combined questioning of the basis of mainstream economics with a concern for environmental degradation and limits to growth, but has now advanced well beyond critique into theoretical, analytical and policy alternatives. Social ecological economics and transformation to an alternative future now form core ideas in an interdisciplinary approach combining insights from a range of disciplines including heterodox economics, political ecology, sociology, political science, social psychology, applied philosophy, environmental ethics and a range of natural sciences. This handbook, edited by a leading figure in the field, demonstrates the dynamism of ecological economics in a wide-ranging collection of state-of-the-art essays. Containing contributions from an array of international researchers who are pushing the boundaries of the field, the Routledge Handbook of Ecological Economics showcases the diversity of the field and points the way forward. A critical analytical perspective is combined with realism about how economic systems operate and their essential connection to the natural world and society. This provides a rich understanding of how biophysical reality relates to and integrates with social reality. Chapters provide succinct overviews of the literature covering a range of subject areas including: heterodox thought on the environment; society, power and politics, markets and consumption; value and ethics; science and society; methods for evaluation and policy analysis; policy challenges; and the future post-growth society. The rich contents dispel the myth of there being no alternatives to current economic thought and the political economy it supports. The Routledge Handbook of Ecological Economics provides a guide to the literature on ecological economics in an informative and easily accessible form. It is essential reading for those interested in exploring and understanding the interactions between the social, ecological and economic and is an important resource for those interested in fields such as: human ecology, political ecology, environmental politics, human geography, environmental management, environmental evaluation, future and transition studies, environmental policy, development studies and heterodox economics.

Uses of Input-output Analysis in State Policy Planning for Economic Development

Input-output Analysis

Applications to Business Accounting

Education and Economics

Disciplinary Evolution and Policy Discourse

[OUP India](#) The book explores various conceptualizations of education in economic theory and how this has influenced policymaking in education. It deconstructs the interface between economic theory and education to unravel the role played by education in socio-economic development.

Applications of the Input-Output Framework

[Springer](#) This book provides a fresh perspective on the ever-growing relevance of input-output analysis in problem solving. It is based on the "19th National Conference of the Input-Output Research Association of India (IORA)", held in 2017 in Mumbai, India. The conference promoted the exchange of ideas on input-output analysis and related methods among economists, government officials, policymakers, academicians and industrialists. The book captures the unique ideas of prominent scholars, extends the basic "input-output framework," analytical tool, outlines the possible impacts of some major policy decisions adopted by the Government of India, and puts forward concrete policy suggestions. In addition, it highlights the versatility of the Leontief model, which is currently being extended to cover a diverse spectrum of policy issues, ranging from agricultural productivity to science and technology and from carbon hotspots to energy and environmental consequences. A perfect blend of theory and application, the book provides a realistic outlook on sensitive economies and interdependencies between sectors.

Input-output Analysis

Current Developments

[Springer](#) The twenty-two chapters included in this book were written by as many scholars working independently of each other in different countries. They present, nevertheless, a well integrated picture of systematic advance in the field of input-output analysis on the broad front, stretching from formal mathematical modelling, through construction of large, specialized databases to detailed empirical inquiry and concrete examples of practical applications. While reflecting a great variety of individual interests and working styles, these contributions taken together provide evidence of what might appear to be coordinated efforts. This coherence has not been brought about by the central guidance so typical of

modern large-scale research. It simply reflects the internal discipline and cohesiveness of a particular methodological approach. In input-output analysis, empirical inquiry and theoretical model building have to be carried out hand-in-hand. If the aim of the investigation is to provide concrete, detailed explanation of observed reality, building an elaborate mathematical model makes little sense without an appropriate database. The language and the terminology used in the construction of that database must, however, be exactly the same as that employed in the formulation of the theoretical model. The same specifications and definitions must, of course, be adhered to - after the theoretical computations have been completed - in the interpretation of the numerical results.

Input-Output Analysis and Contemporary Economics

[LAP Lambert Academic Publishing](#) This book shows that one of the main reasons why input-output analysis is not usable for solving meaningful economic problems is the dissonance between theoretical and empirical accounts of input-output analysis and real life economic activities. And this, despite the fact that many countries have been compiling empirical input-output tables. The author expounds the flaws of existing input-output models, and demonstrates the inadequate results yielded by their practical applications. He covers various topics of input-output analysis with the overall goal of bringing theoretical and empirical accounts of input-output analysis closer to the needs of real life and economic reality. The author puts forward new versions of input-output models reflecting the needs of today economics and how this can be addressed by: (1) the reformulating their theoretical basis by introducing separate categories: money, land, saving; and (2) Extending empirical input-output and considering it in detail. The suggested models should be useful for both theoreticians and those who empirically implement input-output analysis.

Recent Developments in Input-output Analysis

"The international fragmentation of current production processes has led to an explosion of trade in intermediate products, indirectly impacting jobs, income, resources, energy, and emissions. Much of what is consumed is produced via global value chains contributing to climate change via carbon dioxide emissions. The editors analyse the complex interdependent international production structures and their links to social inequality and the environment, which has led to a demand for international input-output tables. Including an original introduction the new volumes comprehensively present research that has advanced the state of the art in input-output analysis over the past two decades"--

Development and application of the input-output method of economic analysis

Input-output Analysis, an Appraisal

A Report of the National Bureau of Economic Research, New York

Papers delivered at the conference held in Oct. 1952. Includes bibliographical references.

Microcomputer Based Input-output Modeling

Applicatons To Economic Development

[CRC Press](#) This book discusses recent developments in Input-Output (I/O) models for microcomputers and applications of I/O models in regional studies. It provides background information on traditional I/O models and a set of working examples of I/O applications for users.

Wassily Leontief and Input-Output Economics

[Cambridge University Press](#) Wassily Leontief was the founding father of input-output economics, for which he received the Nobel Prize in 1973. This book offers a collection of papers in his memory by his students and close colleagues. The first part focuses upon Leontief as an individual and scholar as well as his personal contributions to economics; the second includes new theoretical and empirical research inspired by Leontief's efforts. The collection offers a comprehensive sample of the current state of interindustry economics and is likely to appeal to a wide range of professionals.

Rethinking Input-Output Analysis

A Spatial Perspective

[Springer Nature](#) This textbook helps students to understand the social, economic, and environmental importance of the mutual relations between industries in the same and in different regions and nations and demonstrates how to model these relations using regional, interregional, and international input-output (IO) models. It enables readers to extend these basic IO models with endogenous household expenditures, to employ supply-use tables (SUTs) that explicitly distinguish the products used and sold by industry, and to use social accounting matrices (SAMs) that detail the generation, redistribution and spending of income. In addition to the standard demand-driven IO quantity model and its accompanying cost-push IO price model, the book also discusses the economic assumptions and usefulness of the supply-driven IO quantity model and its accompanying revenue-pull IO price model. The final chapters highlight three main applications of the IO model: (1) economic impact analysis of negative supply shocks as caused by, for example, natural disasters, (2) linkages, key sector, and cluster analysis, (3) structural decomposition analysis, especially of regional, interregional, and international growth, and demonstrate the strengths and weaknesses of these IO applications. Written for graduate students of regional and spatial science as well as for economists and planners, this book provides a better understanding of the foundations, the power, the applicability and the limitations of input-output analysis. The second, completely revised edition expands on updating IO tables, modelling the disaster reconstruction phase, and includes an appendix on the necessary matrix algebra.

Input-output Analysis, Techniques, and Regional Economics

A Select Bibliography

Structural Economics

[Routledge](#) This book aims to make the nature of input-output analysis in economics clearly accessible and, contrary to the opinion of many commentators, shows that this type of analysis can be compatible with the doctrines of neoclassical economics.

Production and Income Relations in the Netherlands

A Semi — regional input — output analysis

[Springer](#) In this book input-output analysis is applied to the regional economy of The Netherlands. The re~ults are based on a publication of The Netherlands Central Bureau of Statistics: Regional Accounts 1960, The Hague, Staatsuitgeverij, 1968. Dr. Schilderinc and Mr. Sinner call special attention to the structure which are concealed in the cumulated primary costs of the final demand categories. Part I of the book deals particularly with a survey of this feature of input-output analysis. Part II starts with comparing the production structure of each industry in the eleven provinces of The Netherlands by means of semi-regional tables. Next, authors analyse the structure of the induced income resulting from a surplus or deficit of each industry on current final transactions per province. Thanks to its methodical elaboration the book is a valuable guide to those confronted with the problems of regional economic analysis. J. J. J. Dalmulder Contents FOREWORD IX LIST OF TABLES XI PART ONE: THE INPUT-OUTPUT TABLE AS AN INSTRUMENT OF ANALYSIS 1 List of symbols 3 1. Introduction 5 2. The input-output table 9 3. Coefficients of the input-output table 11 3. 1 Technical coefficients 11 3. 2 Interdependence coefficients and cumulated production coef- cients 12 3. 3 Input coefficients of cumulated production 15 3. 4 Input coefficients of final demand 17 4. The example of a simple economic system 20 4. 1 The input-output table and the technical coefficients 20 4.

Some Problems of Input Output Methods of Economic Analysis