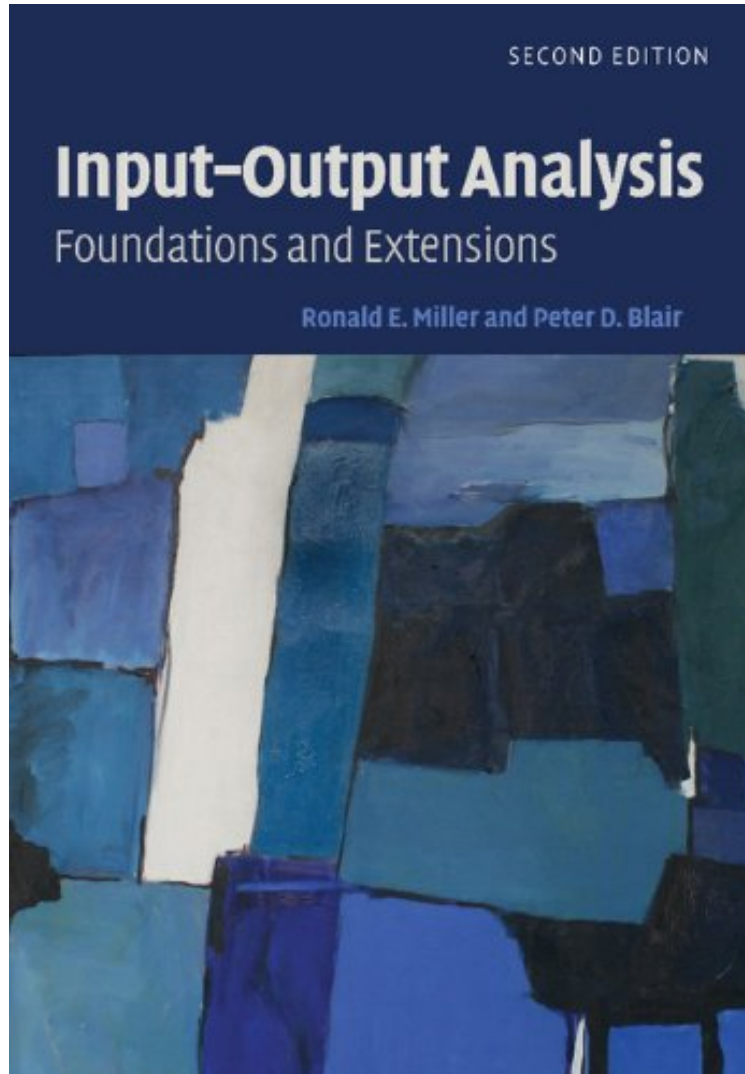


Input-Output Analysis: Foundations and Extensions

Ronald E. Miller, Peter D. Blair

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Ronald E. Miller, Peter D. Blair : Input-Output Analysis: Foundations and Extensions before purchasing it in order to gauge whether or not it would be worth my time, and all praised Input-Output Analysis: Foundations and Extensions:

2 of 2 people found the following review helpful. Input-Output Analysis: Foundations and Extensions By Jan A. Berg-Andreassen Miller Blair (2009) (Second Edition) gives a precise and clear update on the developments and changes that have taken place in I-O analysis since its inception in the 1930's work by W. Leontief. His aim was to formulate a general equilibrium theory that would be capable of empirical implementation. Leontief's problem; and that of the entire economist community, was that the Walrasian general equilibrium model, nice and orderly as it was, did not easily lend itself to quantitative estimation. An interesting aspect here is that Leontief's doctoral thesis at the

University of Berlin was titled "Wirtschaft als Kreislauf" (direct translation: the economy as a circular run). Today, in many languages, the translation of "Kreislauf Analyse" (circular or cross run/section analysis. Ref. Ragnar Frisch's "Kryssloslash;ps Analyse) is the name used for I-O analysis. The authors go into the various aspects of the use, data collection and construction of the I-O matrix and its extensions. Since the advent of relatively sophisticated computer programs, the inversion of the coefficient matrix, i.e., the "Leontief Inverse", is mercifully treated as straight forward matrix algebra. In addition to the traditional industry based technology (industry-by-industry data allocation), the more contemporary commodity based technology is discussed in great detail (commodity-by-commodity data allocation). The commodity-by-industry approach in the I-O model used by the US BEA is of course analyzed. In this connection is noteworthy that the regionalization of the macro model is also discussed. For the application centered readers the various multipliers are outlined. Furthermore, more special uses of the I-O model, such as Energy and Environmental applications are discussed. This opus can be beneficially read by both newcomers and more seasoned practitioners. I of 1 people found the following review helpful. good for beginner By Nutpol Sirisawang This book is useful for beginner in Input Output analysis and can adopt to advance. It will suitable for everyone for starting 0 of 0 people found the following review helpful. Is a superb summary about I-O theory and I-O applied studies By Jaime Vallecilla Because I worked with I-O models since twenty years ago and this book will help me in new studies and the research.

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.

"Generations of scholars and practitioners in input-output grew up with Miller and Blair (MB). The last generation had to learn the trade using a worn out copy from the library or a thumbed xerox copy of a xerox copy of MB. With the new version, MB2, input-output seems well equipped for future generations. [...] MB has been THE input-output textbook for the past decades. I anticipate that MB2 will be THE textbook in input-output for many decades to come." - ERIK DIETZENBACHER, University of Groningen "Miller and Blair have done a great service by updating and expanding their important book. The long-anticipated second edition is remarkably comprehensive. No other source is so thorough, clear, and authoritative. Input-Output Analysis is both text book and indispensable reference work. Beginners will start with the fundamentals of the model, including theory, algebra, and data issues. Experts will realize how much more there is to learn and be directed, via ample references, to journal articles and advanced books. If they study this book, skilled practitioners and consultants who do economic impact studies will avoid logical errors and nonsensical results." - ANDREW ISSERMAN, University of Illinois at Urbana-Champaign "The new edition of Miller and Blair's superb volume on input-output analysis covers much of the same ground as the first edition but in even greater depth. The chapters on energy and environmental input-output analysis have been significantly expanded reflecting the heightened interest in environmental/energy-economy interactions. However, new chapters on social accounting matrices build a bridge to analysis of structural decomposition, and lead to links with general equilibrium models. Additional chapters on supply side models, expanded coverage of non-survey methods and mixed and dynamic models provide, in one volume, an impressive intellectual smorgasbord of theory and applications that will serve both the academic community and practitioners." - GEOFFREY HEWINGS, University of Illinois at Urbana-Champaign "This long-awaited Second Edition of Miller and Blair's Input-Output Analysis: Foundations and Extensions is destined to become a bestseller. They methodically and excellently review in fourteen chapters the basic input-output accounts, and they expand the accounting framework to new energy, environmental, and ecological issues. Readers should grab a copy to learn the basics, but, most importantly, to update their knowledge with the latest accounting concepts, and to learn in each chapter how to apply the accounting basics to sample problems of analysis." - KAREN R. POLENSKE, Massachusetts Institute of Technology About the Author Ronald E. Miller is Emeritus Professor of Regional Science at the University of Pennsylvania, Philadelphia. Peter Blair is executive director of the National Research Council's Division on Engineering and Physical Sciences. Dr Blair also directed the Council's America's Energy Future series of studies, initiated in 2007 by the National Academy of Sciences and the National Academy of Engineering at the request of Congress to inform the national debate about the role of science and technology in shaping the nation's energy future. From 1992 to 1996, Dr Blair served as Assistant Director of the of the Congressional Office of Technology Assessment (OTA) and director of its Division of Industry, Commerce, and International Security, and earlier as OTA's energy research program manager. He received the agency's distinguished

service award in 1991. He was executive director of Sigma Xi, The Scientific Research Society and publisher of American Scientist from 1997 to 2001. Dr Blair was co-founder (in 1978) and principal of Technecon Analytic Research, Inc., which was acquired by the Reading Energy Corporation in 1985. He served on the faculty of the University of Pennsylvania (1976-96) and as an adjunct faculty member at the University of North Carolina, Chapel Hill (1997-2001). Dr Blair is the author or co-author of the books Multiobjective Regional Energy Planning, Geothermal Investment Decision Analysis (1979) and Input-Output Analysis: Foundations and Extensions (1985, 2nd edition, 2010), and co-edited Trends in Industrial Innovation: Industry Perspectives and Policy Implications (1997). He has written more than 100 technical articles in areas of energy and environmental policy, electric power systems, operations research, economics and regional science, and science policy. Dr Blair holds a BS in engineering from Swarthmore College (1973) and graduate degrees from the University of Pennsylvania: an MSE in systems engineering (1974) and an MS (1975) and PhD (1976) in energy management and policy. Dr Blair is a fellow of the American Association for the Advancement of Science (