Strategic Enterprise Architecture Management
Challenges, Best Practices, and Future Developments

The discipline of Enterprise Architecture Management (EAM) deals with the alignment of business and information systems architectures. While EAM has long been regarded as a discipline for IT managers this book takes a different stance: It explains how top executives can use EAM for leveraging their strategic planning and controlling processes and how EAM can contribute to sustainable competitive advantage. Based on the analysis of best practices from eight leading European companies from various industries the book presents crucial elements of successful EAM. It outlines what executives need to do in terms of governance, processes, methodologies and culture in order to bring their management to the next level. Beyond this, the book points how EAM might develop in the next decade allowing today’s managers to prepare for the future of architecture management.

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F. Ahlemann, EBS Universität für Wirtschaft und Recht, Wiesbaden, Germany; E. Stettiner, PricewaterhouseCoopers, Hamburg, Germany; M. Messerschmidt, PricewaterhouseCoopers, Düsseldorf, Germany; C. Legner, Université de Lausanne, Switzerland (Eds.)

Handbook on Semidefinite, Conic and Polynomial Optimization

Semidefinite and conic optimization is a major and thriving research area within the optimization community. Although semidefinite optimization has been studied (under different names) since at least the 1940s, its importance grew immensely during the 1990s after polynomial-time interior-point methods for linear optimization were extended to solve semidefinite optimization problems. Since the beginning of the 21st century, not only has research into semidefinite and conic optimization continued unabated, but also a fruitful interaction has developed with algebraic geometry through the close connections between semidefinite matrices and polynomial optimization. This has brought about important new results and led to an even higher level of research activity. This Handbook on Semidefinite, Conic and Polynomial Optimization provides the reader with a snapshot of the state-of-the-art in the growing and mutually enriching areas of semidefinite optimization, conic optimization, and polynomial optimization. It contains a compendium of the recent research activity that has taken place in these thrilling areas, and will appeal to doctoral students, young graduates, and experienced researchers alike. The Handbook’s thirty-one chapters are organized into four parts: Theory, covering significant theoretical developments as well as the interactions between conic optimization and polynomial optimization; Algorithms, documenting the directions of current algorithmic development; Software, providing an overview of the state-of-the-art; Applications, dealing with the application areas where semidefinite and conic optimization has made a significant impact in recent years.

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2012. XIII, 265 p. 21 illus. (Handbook on Semidefinite, Conic and Polynomial Optimization) Hardcover
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A.A. Ashimov, Kazakh National Technical University, Almaty City, Kazakhstan; B.T. Sultanov, Kazakh National Technical University, Almaty City, Kazakhstan; Z.M. Adilov, Kazakh National Technical University, Almaty City, Kazakhstan; Y.V. Borovskiy, Kazakh National Technical University, Almaty City, Kazakhstan; D.A. Novikov, Kazakh National Technical University, Almaty City, Kazakhstan; R.M. Nizhegorodtsev, Kazakh National Technical University, Almaty City, Kazakhstan; A.A. Ashimov, Kazakh National Technical University, Almaty City, Kazakhstan

Macroeconomic Analysis and Economic Policy Based on Parametric Control

After the transition to free economy, governments of the former Soviet republics realized that in spite of
Handbook of the History of Economic Thought
Insights on the Founders of Modern Economics

This reader in the history of economic thought challenges the assumption that today’s prevailing economic theories are always the most appropriate ones. As Leland Yeager has pointed out, unlike the scientists of the natural sciences, economists provide their ideas largely to politicians and political appointees who have rather different incentives that might prevent them from choosing the best economic theory. In this book, the life and work of each of the founders of economics is examined by the best available expert on that founding figure. These contributors present rather novel and certainly not mainstream interpretations of the founders of modern economics. The primary theme concerns the development of economic thought as this emerged in the various continental traditions including the Islamic tradition. These continental traditions differed substantially, both substantively and methodologically, from the Anglo-Saxon orientation that has been dominant in the last century for example in the study of public finance or the very construct of the state itself. This book maps the various channels of continental economics, particularly from the late-18th through the early-20th centuries, explaining and demonstrating the underlying unity amid the surface diversity. In particular, the book emphasizes the writings of John Stuart Mill, his predecessor David Ricardo and his follower Jeremy Bentham; the theory of Marginalism by von Thünen, Cournot, and Gossen; the legacy of Karl Marx; the innovations in developmental economics by Friedrich List; the economic and monetary contributions and “struggle of escape” by John Maynard Keynes; the formidable theory in public finance and economics by Joseph Schumpeter; the economic and methodologically, from the Anglo-Saxon traditions differed substantially, both substantively and methodologically, from the Islamic tradition. These continental traditions differed substantially, both substantively and methodologically, from the Anglo-Saxon orientation that has been dominant in the last century for example in the study of public finance or the very construct of the state itself. This book maps the various channels of continental economics, particularly from the late-18th through the early-20th centuries, explaining and demonstrating the underlying unity amid the surface diversity.

Quantitative Problem Solving Methods in the Airline Industry
A Modeling Methodology Handbook

This book reviews Operations Research theory, applications and practice in seven major areas of airline planning and operations. In each area, a team of academic and industry experts provides an overview of the business and technical landscape, a view of current best practices, a summary of open research questions and suggestions for relevant future research. There are several common themes in current airline Operations Research efforts. First is a growing focus on the customer in terms of: 1) what they want; 2) what they are willing to pay for services; and 3) how they are impacted by planning, marketing and operational decisions. Second, as algorithms improve and computing power increases, the scope of modeling applications expands, often re-integrating processes that had been broken into smaller parts in order to solve them in the past. Finally, there is a growing awareness of the uncertainty in many airline planning and operational processes and decisions. Airlines now recognize the need to develop ‘robust’ solutions that effectively cover many possible outcomes, not just the best case, “blue sky” scenario. Individual chapters cover: Customer Modeling methodologies, including current and emerging applications. Airline Planning and Schedule Development, with a look at many remaining open research questions. Revenue Management, including a view of current business and technical landscapes, as well as suggested areas for future research. Airline Distribution -- a comprehensive overview of this newly emerging area. Crew Management Information Systems, including a review of recent algorithmic advances, as well as the development of information systems that facilitate the integration of crew management modeling with airline planning and operations. Airline Operations, with consideration of recent advances and successes in solving the airline operations problem. Air Traffic Flow Management, including the modeling environment and opportunities for both Air Traffic Flow Management and the airlines.

Modernizing Processes in Public Administrations
Process Management in the Age of e-Government and New Public Management

In this monograph, a new process modelling approach for the public sector is described: the PICTURE method. The approach takes into account the specific characteristics of public administrations. Hence several advantages are derived: increased...
modelling speed, improved user acceptance and enhanced analysis capabilities. 

More on www.springer.com/978-3-642-21355-7

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2012. XXIV, 336 p. 166 illus. (BPM Competence) Hardcover

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A. Bøllingtoft, Aarhus University, Denmark; L. Donaldson, University of New South Wales, Sydney, Australia; G.P. Huber, The University of Texas at Austin, Texas, USA; D.D. Håkansson, Aarhus University, Denmark; C.C. Snow, Penn State University, PA, USA (Eds.)

Collaborative Communities of Firms

Purpose, Process, and Design

Faced with the ever-accelerating pace of technological change and the restructuring of markets, many firms have been questioning the appropriateness of their own organizational structure and effectiveness. Consequently, we have witnessed much organizational experimentation and the development of new forms of organizing over the last decade. Firms are more dependent than ever on the need for continuous and radical innovations – and often innovations that go beyond their existing businesses. This challenges firms in terms of knowledge and idea sharing, and often necessitates the need to expand beyond the boundaries of the single firm for multi-party collaboration to meet serious challenges and develop creative solutions. Drawing from the Fourth International Workshop on Organization Design, and featuring contributions from an international array of specialists, this volume focuses on the expansion beyond the boundaries of the single firm and multi-firm networks, to include, for example, community-based organization designs. A community is a connected set of firms; the connections can take on many different dimensions. For organization design theory, community-based organizations have many implications. For one, organization design theory has to identify and describe designs that enhance collaborative behavior among firms without restricting the ability of the individual firm to continue to compete within its own marketplace. Moreover, organization design theory also has to identify and describe information processing strategies and designs that allow the continuous generation, sharing, and application of existing information and knowledge. The development of effective collaborative community designs is critically important to the global economy because, increasingly, our future depends on pursuing shared goals and sustainably developing our global commons. Ideally, the ideas and findings in this book will contribute to increased attention to new organization designs capable of meeting 21st-century opportunities and challenges.

More on www.springer.com/978-1-4614-1283-0

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978-1-4614-1283-0

►99,95 €

E.G. Carayannis, George Washington University, Washington, DC, USA; A. Pirzadeh, Independent Consultant, Washington, DC, USA; D. Popescu, World Bank Group, Washington, DC, USA

Institutional Learning and Knowledge Transfer Across Epistemic Communities

New Tools of Global Governance

Over the past several decades, as the pace of globalization has accelerated, operational issues of international coordination have often been overlooked. For example, the global financial crisis that began in 2007 is attributed, in part, to a lack of regulatory oversight. As a result, supranational organizations, such as the G-20, the World Bank, and the International Monetary Fund, have prioritized strengthening of the international financial architecture and providing opportunities for dialogue on national policies, international co-operation, and international financial institutions. Prevaling characteristics of the global economic systems, such as the increasing power of financial institutions, changes in the structure of global production, decline in the authority of nation-states over their national economy, and creation of global institutional setting, e.g., global governance have created the conditions for a naturally evolving process towards enabling national epistemic communities to create institutions that comply with global rules and regulations can control crises. In this volume, the authors provide in-depth analysis of initiatives to demonstrate how this type of knowledge generated at the international organization level, is codified into global standards, and disseminated to members, particularly in the developing world, where the legal and regulatory infrastructure is often lacking. They argue that despite the challenges, when a country intends to join the global system, its institutions and economic structures need to move toward the global norms. In so doing, they shed new light on the dynamics of knowledge transfer, financial regulation, economic development, with particular respect to supporting global standards and avoiding future crises.

More on www.springer.com/978-1-4614-1550-3

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E.G. Carayannis, George Washington University, Washington, DC, USA; U. Varblane, University of Tartu, Estonia; T. Rool aht, University of Tartu, Estonia (Eds.)

Innovation Systems in Small Catching-Up Economies

New Perspectives on Practice and Policy

In several parts of the world, countries are undergoing economic, social, and political transitions, enhanced and accelerated by the forces of globalization. These transition economies can serve as laboratories for understanding the innovation process. This volume features original theoretical and empirical research. It offers the first comprehensive view of innovation system development in the context of small catching-up economies. Smallness, path dependency, and latecomer status of such economies create some inherent limitations for their innovation systems, but these special characteristics can offer advantages as well. For example, smallness is often related with increased flexibility and shorter reaction times, while latecomers can benefit from earlier experiences of their more advanced neighbors. Path-dependency highlights the fact that the innovation system development processes are considerably influenced by the past experience of a particular country or region. By incorporating these features into an integrated analysis, the authors address such questions as:

What special features characterize the innovation system development in small catching-up economies?

What are the causes for innovation success or failure?

How do organizational capabilities and internationalization tendencies relate to company level innovations?

What is the role of human capital and social factors in the innovation process?

How can various policies support innovation in an integrated manner?

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Applied General Equilibrium
An Introduction

This advanced textbook aims at providing a simple but fully operational introduction to applied general equilibrium. General equilibrium is the backbone of modern economic analysis and as such generation after generation of economics students are introduced to it. As an analytical tool in economics, general equilibrium provides one of the most complete views of an economy since it incorporates all economic agents (households, firms, government, foreign sector) in an integrated way that is compatible with microtheory and microdata. The integration of theory and data handling is required for successful modeling but it requires a double ability that is not found in standard books. With this book we aim at filling the gap and provide advanced students with the required tools, from the building of consistent and applicable general equilibrium models to the interpretation of the results that ensue from the adoption of policies. The topics include: model design, model development, computer code examples, calibration and data adjustments, practical policy examples.

More on www.springer.com/978-3-642-24745-3
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The Financial Systems of Industrial Countries
Evidence from Financial Accounts

This book offers a comprehensive overview of the financial systems of major industrialized countries using the statistical framework of the financial accounts. After a discussion of how economists agreed to create a framework to monitor the financial linkages between surplus and deficit sectors, the book analyzes in detail the composition and the recent evolution of financial assets and liabilities for households (including public pension rights), firms and intermediaries. Next, the volume studies the convergence patterns of financial structures and their influence on the effectiveness of monetary policy within European countries. The final chapter unifies the previous pictures, showing how the effects of financial integration and global imbalances could have been foreseen based on the financial accounts. The analysis and information contained in the book will help the readers to understand many issues and challenges raised by the recent financial crisis.

More on www.springer.com/978-3-642-23110-0
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Taxpayer compliance is a voluntary activity, and the degree to which the tax system works is affected by taxpayers’ knowledge that it is their moral and legal responsibility to pay their taxes. Taxpayers also recognize that they face a lottery in which not all taxpayer noncompliance will ever be detected. In the United States most individuals comply with the tax law, yet the tax gap has grown significantly over time for individual taxpayers. The US Internal Revenue Service estimates that the tax gap is currently around 25%. This gap is caused by a variety of factors, including the complexity of the tax code, the incentives for noncompliance, and the burdens of compliance.

The Causes and Consequences of Income Tax Noncompliance

Cross-cultural knowledge management, an elusive yet consequential phenomenon, is becoming an increasingly essential factor in organizational practice and policy in the era of globalization. In order to overcome culturally shaped blind spots in conducting research in different settings, this volume highlights how the structuring of roles, interests, and power among different organizational elements, such as teams, departments, and management hierarchies (each comprised of members from different intellectual and professional backgrounds), generates various paradoxes and tensions that bring into play a set of dynamics that have an impact on learning processes. In this context, such questions often arise: How is knowledge shared in the multicultural organization? What problems and issues emerge? How do different mindsets affect people’s responses to new knowledge and new ideas? How can knowledge-sharing processes be improved? Under which conditions do ideas generated by units or groups of different cultural traditions have a chance of being heard and implemented? Such questions translate into an investigation of potential managerial dilemmas that occur when different but equally valid choices create tensions in decision making.

The authors draw from experiences working with a wide variety of organizations, and insights from such fields as sociology and psychology, to shed new light on the dynamics of knowledge management in the multicultural enterprise. In so doing, they help to identify both obstacles to successful communication and opportunities to inspire creativity and foster collaboration. The authors note that in order to enable organizations to transfer knowledge effectively, mechanisms for dispute settlement, mediation of cultural conflict, and enforcing agreements need to be in place.
Service attempts to ensure that the minority of taxpayers who are noncompliant pay their fair share with a variety of enforcement tools and penalties. The Causes and Consequences of Income Tax Noncompliance provides a comprehensive summary of the empirical evidence concerning taxpayer noncompliance and presents innovative research with new results on the role of IRS audit and enforcement activities on compliance with federal and state income tax collection. Other issues examined include to what degree taxpayers respond to the threat of civil and criminal enforcement and the important role of the media on taxpayer compliance. This book offers researchers, students, and tax administrators insight into the allocation of taxpayer compliance enforcement and service resources, and suggests policies that will prevent further increases in the tax gap. The book’s aggregate data analysis methods have practical applications not only to taxpayer compliance but also to other forms of economic behavior, such as welfare fraud.

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2012. IX, 281 p. 93 illus., 23 in color. Hardcover
978-3-642-22127-9 46,68 €

K. Fichter, Borderstep Institute for Innovation and Sustainability, Berlin, Germany; S. Beucker, Borderstep Institute for Innovation and Sustainability, Berlin, Germany (Eds.)

Innovation Communities
Teamworking of Key Persons - A Success Factor in Radical Innovation

Self-organising networks have become the dominant innovators of complex technologies and radical innovation. The growing need for co-operation to ensure innovation success calls for a broader understanding of what makes innovation projects successful and requires new concepts. The book introduces the new concept of “innovation communities”, defining them as informal networks of like-minded individuals who act as innovation promoters or champions. These key figures come from various companies and organisations and will team up in a project-related fashion, jointly promoting a certain innovation, product or idea either on one or across different levels of an innovation system. The publication presents findings from surveys that demonstrate that networks of champions are a success factor in radical innovation. Five case studies of noteworthy innovation projects illustrate why the collaboration of champions can make innovation projects more successful. Furthermore, the book presents hands-on methods and includes best-practice cases and guidelines on how to develop innovation communities. This publication comprises empirical findings and practical experiences that are valuable for the following groups in particular: Entrepreneurs; Innovation, R&D, and network managers; Innovation and strategy consultants; Innovation and start-up intermediaries; Innovation researchers; Government officials and politicians responsible for R&D and innovation programmes and funding.

Usually dispatched within 3 to 5 business days.
978-1-4614-1292-2 99,95 €

P. Faust, München; G. Yang, Tongji University Shanghai, China (Eds.)

China-Sourcing
Beschaffung, Logistik und Produktion in China


More on www.springer.com/978-3-642-22363-3
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978-3-642-22363-3 66,83 €

M.-A. Galindo, University of Castilla-La Mancha, Ciudad Real, Spain; D. Ribeiro, University of Valencia, Spain (Eds.)

Women’s Entrepreneurship and Economics
New Perspectives, Practices, and Policies

Over the past century, an extensive literature has developed, exploring the impact of entrepreneurship on economic performance. The active participation of entrepreneurs in virtually all aspects of business and economic activity has obliged policy makers within the global economy to consider entrepreneurship as a determining variable in any political force, not only for bodies and groups created specifically to this end, but also for any decision-making body. To this end, specific actions promoting entrepreneurship have already been established around the world. However, the particular dynamics of entrepreneurship by women present unique opportunities and challenges. The women’s perspective has often been overlooked in research, practice, and policymaking, and yet yields rich insights and implications. This volume features research from an international array of authors, global data, and in-depth analysis of women’s entrepreneurial activity in Europe, Latin America, the United States, and Canada, to shed light on the positive impact of women’s entrepreneurship on economic growth and development. The first part covers a broad range of concepts relating to the history and context of the female economic perspective. The second part focuses on performance and success factors, with respect to such issues as innovation, social needs, and entrepreneurial orientation. The third part addresses issues of financing, including discussion of access to capital, microcredit, and entrepreneurial behavior. The fourth part considers additional topics, such as work-family balance and access to education. Together, the chapters offer new perspectives on the unique characteristics of women entrepreneurs and their contributions to economic development in theory, practice, and policymaking.

Usually dispatched within 3 to 5 business days.
Handbook of Healthcare System Scheduling

This edited volume captures and communicates the best thinking on how to improve healthcare by improving the delivery of services -- providing care when and where it is needed most -- through application of state-of-the-art scheduling systems. Over 12 chapters, the authors cover aspects of setting appointments, allocating healthcare resources, and planning to ensure that capacity matches needs for care. A central theme of the book is increasing healthcare efficiency so that both the cost of care is reduced and more patients have access to care. This can be accomplished through reduction of idle time, lessening the time needed to provide services and matching resources to the needs where they can have the greatest possible impact on health. Within their chapters, authors address: (1) Use of scheduling to improve healthcare efficiency. (2) Objectives, constraints and mathematical formulations. (3) Key methods and techniques for creating schedules. (4) Recent developments that improve the available problem solving methods. (5) Actual applications, demonstrating how the methods can be used. (6) Future directions in which the field of research is heading. Collectively, the chapters provide a comprehensive state-of-the-art review of models and methods for scheduling the delivery of patient care for all parts of the healthcare system. Chapter topics include setting appointments for ambulatory care and outpatient procedures, surgical scheduling, nurse scheduling, bed management and allocation, medical supply logistics and routing and scheduling for home healthcare.

More on www.springer.com/978-1-4614-1733-0

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▶99,95 €

National Strategies to Harness Information Technology

Seeking Transformation in Singapore, Finland, the Philippines, and South Africa

The ability to harness Information Communication Technologies (ICTs) is increasingly at the heart of competitiveness and sustainable growth. As countries engage in an increasingly competitive global economy, they are trying to weave ICT into their development strategies, in the same way enterprises have learned to use ICT to transform their business models and strategies. This integration offers a new path to development that is responsive to the challenges of our times. In National Strategies to Harness Information Technology, Nagy Hanna and Peter Knight provide a framework for assessing the opportunities, challenges, and prospects for “e-transformation” and for analyzing the options and innovations adopted to manage the e-transformation process. They ask hard questions: what does it take to harness ICT to transform an economy? Why some countries accelerate their development journey with ICT while others fail? How did successful countries balance the need for strategic leadership with bottom up innovation? Can countries reduce the risks of digital divide? What have been the roles of government and private sectors? What lessons can be learned for countries at different levels of development? Featuring contributions from country experts, the editors and authors provide in-depth case studies of ICT deployment in Singapore, Finland, the Philippines, and South Africa, and assess the progress of such efforts. The result is an essential resource for academic researchers, policy analysts, policymakers, and industry leaders interested in the role of ICT in national development, innovation, and economic growth.

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▶99,95 €

Modernization Science

The Principles and Methods of National Advancement

Depending on their national level of income, development and modernization, all countries in the world can be generally categorized as either advanced or developing. Studies on why advanced countries continue to develop, how they maintain their level of development, and how developing countries enter into the advanced club fall into the field of “modernization science,” which is an emerging interdisciplinary science. This monograph, the first English book available on “modernization science,” interprets its concepts, methodologies, general theories, first and second modernization, six level-specific, six field-specific and three sector-specific modernizations, modernization policy and evaluation, and the principles and methods of national development since the 18th century. It provides clear, systematic, up-to-date information on this new discipline with more than 173 figures and 265 tables, and covers 131 countries and 97% of the global population. A comprehensive outlook on world modernization is presented from a Chinese perspective.

More on www.springer.com/978-3-642-25458-1

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2012. X, 648 p. 192 illus., 128 in color. Hardcover 978-3-642-25458-1

▶169,95 €
Effective Strategy Execution
Improving Performance with Business Intelligence

Turbulent times create a threat for the survival of organizations while also offering new opportunities. This book uses many examples to demonstrate how an improved strategic management approach, leveraging established management concepts in conjunction with the innovative technology solutions offered by business intelligence, can lead to improved results. The book presents the three main barriers to an effective strategy execution and how they can be overcome. Creating a shared understanding of the strategy on all levels of the organization using a Value ScorecardTM and following the Strategic Alignment ProcessTM enables organizations to measure and monitor performance. The Strategic Alignment Remote ControlTM is presented as the ultimate tool for managers to remain in control of their business. Seven Case Studies from different industries across the globe provide examples how the organizational performance can be improved. They include companies like Daimler, Tetra-Pak, Würth, Germany's Federal Employment Agency, City of Aix-Les-Bains, and Giesecke & Devrient. Additional examples from organizations like Disney, Marriott, Volkswagen, Avis, FedEx, and Harrahs help to demonstrate how the application of the introduced concepts adds a unique value. Additional details and the free Strategy Execution Effectiveness Survey are available at: www.strategicbusinessintelligence.com

More on www.springer.com/978-3-642-19204-3
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2012, XVI, 228 p. 62 illus. Hardcover
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49,95 €

New Corporate Governance
Successful Board Management Tools

Martin Hilb presents an innovative and integrated approach to the theory and practice of corporate governance. Central to this approach is a set of instruments - developed and tested by the author - that can be used by boards to offer effective strategic direction and control to their organizations. The board instruments can be readily applied to the selection, review, remuneration and development of board members, and for conducting board self-evaluations. This new approach to corporate governance is based on four guiding principles: keep it situational, keep it strategic, keep it integrated, and keep it controlled. Together, these principles form the basis of an integrated approach to all key aspects of corporate governance. The main arguments in each section are supported by conceptual models, practical board tools or case studies, making the book ideally suited to board members, senior managers and post-graduate students. “Martin Hilb’s new book will stimulate behavioral change behind board doors. Nothing is more important to the continuing improvement of board governance than the board self-appraisal tools promoted in this book.” Professor David R. Beatty, Director of the ‘Center for Board Effectiveness’ of the University of Toronto, and Managing Director of the Canadian Coalition for Good Governance, Toronto

“There is no ‘one size fits all’ corporate governance solution, but integrity is the basis for all, and above all common sense needs to be used. Hilb’s new glocal approach illustrates this in an effective way.” Noke Kiroyan, Chairman of the Board of Rio Tinto Corporation and Chairman of the IBL (Resource Center for Corporate Citizenship), Jakarta

“Martin Hilb’s book is a welcome and substantial addition to the corporate governance debate. I have long respected and valued his insightful contributions to management issues. In this book he provides us with integrated and holistic concepts, and ways and means for achieving effective, real-world board management. With this book, responsible directors may well be encouraged to evaluate their own board performance. Therefore, it is essential reading for business leaders committed to successful corporate governance.” Dr. Egon Zehnder, Chairman of the Board of Egon Zehnder International Inc, Zurich

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2012, XII, 237 p. 118 illus. Hardcover
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Integrated Methods for Optimization

The first edition of Integrated Methods for Optimization was published in January 2007. Because the book covers a rapidly developing field, the time is right for a second edition. The book provides a unified treatment of optimization methods. It brings ideas from mathematical programming (MP), constraint programming (CP), and global optimization (GO) into a single volume. There is no reason these must be learned as separate fields, as they normally are, and there are three reasons they should be studied together. (1) There is much in common among them intellectually, and to a large degree they can be understood as special cases of a single underlying solution technology. (2) A growing literature reports how they can be profitably integrated to formulate and solve a wide range of problems. (3) Several software packages now incorporate techniques from two or more of these fields. The book provides a unique resource for graduate students and practitioners who want a well-rounded background in optimization methods within a single course of study. Engineering students are a particularly large potential audience, because engineering optimization problems often benefit from a combined approach—particularly where design, scheduling, or logistics are involved. The text is also of value to those studying operations research, because their educational programs rarely cover CP, and to those studying computer science and artificial intelligence (AI), because their curricula typically omit MP and GO. The text is also useful for practitioners in any of these areas who want to learn about another, because it provides a more concise and accessible treatment than other texts. The book can cover so wide a range of material because it focuses on ideas that are relevant to the methods used in general-purpose optimization and constraint solvers. The book focuses on ideas behind the methods that have proved useful in general-purpose optimization and constraint solvers, as well as integrated solvers of the present and foreseeable future. The second edition updates results in this area and includes several major new topics: Background material in linear, nonlinear, and dynamic programming, Network flow theory, due to its importance in filtering algorithms. A chapter on generalized duality theory that is more explicitly develops a unifying primal-dual algorithmic structure for optimization methods. An extensive survey of search methods from both MP and AI, using the primal-dual framework as an organizing principle. Coverage of several additional global constraints used in CP solvers. The book continues to focus on exact as opposed to heuristic methods. It is possible to bring heuristic methods into the unifying
scheme described in the book, and the new edition will retain the brief discussion of how this might be done.


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Hardcover
978-1-4614-1899-3
▶89,95 €

T. Just, Deutsche Bank Research, Frankfurt, Germany; W. Maennig, University of Hamburg, Germany (Eds.)

**Understanding German Real Estate Markets**

Real estate is the biggest real asset class in an economy, and Germany is the biggest economy in Europe. This implies opportunities as well as specific risks for investors and policy makers. As the German real estate markets have by and large been spared severe disruptions in the course of the economic crisis, many questions arise for investors and academics alike. What are the key institutional characteristics of the German real estate markets that make it different? What are the short and long-term drivers of demand and supply? Which regional and functional market segments are most likely to outperform in the next few years? What are the most important pitfalls for investors in Germany? This book gives answers to these and many more questions. The editors have invited a broad range of extensively knowledgeable practitioners and academics from across the relevant real estate spectrum, i.e. economic, legal, tax, planning and financing issues, to express their views. There is no better English publication that gives such a profound and simultaneously entertaining overview of Germany’s real estate markets.

More on [www.springer.com/978-3-642-25410-9](www.springer.com/978-3-642-25410-9)

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S. Häder, GESIS – Leibniz Institute for the Social Sciences, Mannheim, Germany; M. Häder, Technische Universität Dresden, Germany; M. Kühne, Technische Universität Dresden, Germany (Eds.)

**Telephone Surveys in Europe Research and Practice**

Telephone surveying is the most often applied mode of data collection in Europe. That implies a need for methodological knowledge on this topic. However, technical conditions are changing rapidly and the challenge for survey researchers to stay up-to-date is immense. For instance, landline and mobile phone coverage have extremely changed in the last time. Along with the rising number of so-called ‘mobile-onlys’, this particular field of telephone survey research becomes more and more important. Thus, we concentrate on the latest developments and trends in landline and mobile phone surveys in Europe. The book is addressed to all scientists and practitioners who deal with theory and application of telephone surveys - in academic and market research. Furthermore, it is a valuable reader for students who are interested in survey methodology.

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J. Kandampully, Ohio State University, Columbus, OH, USA (Ed.)

**Service Management The New Paradigm in Retailing**

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2012. XXII, 315 p. 33 illus. Hardcover
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C. Karrer, McKinsey, München, Germany

**Engineering Production Control Strategies**

A Guide to Tailor Strategies that Unite the Merits of Push and Pull

Identifying and customizing suitable control strategies is a challenging task, especially when production systems have to cope with variable demands, forecast error, and unstable processes. The focus of this book lies on helping companies with complex and discrete production systems to tailor a production control strategy to their needs. Thereby, the mutual merits of "push" and "pull" systems are taken into account, leading to hybrid strategies. Consequently, the book addresses practitioners who are interested in looking behind the scenes and into the physics of production control. A real-life case study demonstrates the practical applicability of the presented framework.

More on [www.springer.com/978-3-642-24141-3](www.springer.com/978-3-642-24141-3)

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2012. X, 176 p. 74 illus. (Management for Professionals) Hardcover
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Equilibria in Irrational Markets proves traditional economic equilibria continue to occur despite natural selection in irrational markets. It covers a wide sampling of equilibria under various scenarios, and each chapter addresses the results of these models at an aggregate level. The text is supplemented with charts and figures to drive home key findings and proofs, making it of interest to students and researchers in the areas of economics and behavioral finance.

Usually dispatched within 3 to 5 business days.

2012. XII, 198 p. 15 illus., 6 in color. (Studies in Economic Theory, Vol. 28) Hardcover
978-1-4614-0711-9
►99,95 €

The Ethics of Tax Evasion Perspectives in Theory and Practice

Why do people evade paying taxes? This is the central question addressed in this volume by Robert McGee and a multidisciplinary group of contributors from around the world. Applying insights from economics, public finance, political science, law, philosophy, theology and sociology, the authors consider the complex motivations for not paying taxes and the conditions under which this behavior might be rationalized. Applying theoretical approaches as well as empirical research, The Ethics of Tax Evasion considers three general arguments for tax evasion: (1) in cases where the government is corrupt or engaged in human rights abuses; (2) where citizens claim inability to pay, unfairness in the tax system, paying for things that do not benefit the taxpayer, excessively high tax rates, or where taxes are used to support an unpopular war; and (3) through philosophical, moral, or religious opposition. The authors further explore these issues by asking whether attitudes toward tax evasion differ by country or other demographic variables such as gender, age, ethnicity, income level, marital status, education or religion. The result is a multi-faceted analysis of tax evasion in cultural and institutional context, and, more generally, a study in ethical dilemmas and rational decision making.

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2012. XVI, 689 p. 4 illus. Hardcover
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suggests that the actual worldwide economic growth is not balanced at all. Meanwhile, ever since the beginning of the financial and economic crisis in 2007 and its accompanying spillover effects, our globalizing world has uncompromisingly shown the flip side of its coin. Its crisis-prone character has intensified the discussion about our economic system’s sustainability. Questions related to acceptable sovereign debt levels, suitable trade deficits and surpluses, firms’ growth targets, resource management and efficiency have aroused high interest. What is the cause of the observed imbalances? In our opinion, this debate must involve rethinking the qualitative and quantitative dimension of our present understanding of the nature of economic growth. This book accompanies the 9th DocNet Management Symposium of the University of St. Gallen, Switzerland. It contains contributions of the symposium’s panel speakers, renowned authors to the field and young researchers. The Ph.D. students’ and post-doctoral association DocNet organizes the DocNet Management Symposium on a yearly basis with the goal to foster exchange between academia and practitioners.

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Information Strategy Design and Practices

Information Strategy Design and Practices illustrates approaches for designing and implementing information strategy. While it gives details of different theoretical concepts related to information strategy, it also provides live examples from different corporations as to how project goals can be achieved through effective information strategy. The book also illustrates ‘people focused’ frameworks that can be used for designing and implementing IS. It also demonstrates different approaches that would be of interest to practitioners. The book has power point presentations for instructors which can be obtained from Springer.com.


2012. XII, 342 p. 10 illus., 79 in color. Hardcover
978-1-4614-2427-7
►139.95 €
Information Theory and Best Practices in the IT Industry

The importance of benchmarking in the service sector is well recognized as it helps in continuous improvement in products and work processes. Through benchmarking, companies have strived to implement best practices in order to remain competitive in the product-market in which they operate. However, studies on benchmarking, particularly in the software development sector, have neglected using multiple variables and therefore have not been as comprehensive. Information Theory and Best Practices in the IT Industry fills this void by examining benchmarking in the business of software development and studying how it is affected by development process, application type, hardware platforms used, and many other variables. Information Theory and Best Practices in the IT Industry begins by examining practices of benchmarking productivity and critically appraises them. Next the book identifies different variables which affect productivity and variables that affect quality, developing useful equations that explain their relationships. Finally these equations and findings are applied to case studies. Utilizing this book, practitioners can decide about what emphasis they should attach to different variables in their own companies, while seeking to optimize productivity and defect density.

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2012. XV, 216 p. 34 illus., 17 in color. Hardcover
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D.-J. Moon, Seoul National University, Seoul, Korea

Congestion-Prone Services under Quality Competition
A Microeconomic Analysis

This study presents new microeconomic analyses of congestion-prone services that comprise most private and public services at the final consumption stage. It accounts for two distinctive features of congestion-prone services: the discrepancy between capacity and throughput, and service quality competition. To accommodate these features, a series of new decision-making theorems for consumers and suppliers is developed. The resulting demand and cost functions incorporate service time as the variable that reflects congestion and service quality. In market equilibrium, interactions between consumers and firms endogenously determine the industrial organization type of each firm and thus allow the coexistence of multiple industrial organization types in the same market. Efficiency of resource allocation is assessed by applying two different criteria: service quality diversity throughout the market and Pareto optimality in each submarket.

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S. Mohapatra, Xavier Institute of Management, Bhubaneswar, India

Innovators’ Marketplace
Using Games to Activate and Train Innovators

This book presents a powerful method for innovation that reinforces combinatorial and analogical thoughts, with interdisciplinary communications among stakeholders in the market. In this method called Innovators’ Marketplace, two games - Innovators’ Market Game and Analogy Game - accelerate the spiral of innovation with visualizing data on the connectivity of pieces of existing knowledge. Some players invent ideas by connecting and combining pre-existing knowledge, while others evaluate the ideas to decide whether or not to buy. In a joyful atmosphere created by the games, players look beyond resistance to criticism, as experiments real cases show. They will start thinking and talking about the best segment of the majority, latent requirements in the future market, and scenarios for satisfying those requirements. This process embodies the principle that an interdisciplinary combination of business actors and resources, possibly with the appearance of new actors, triggers innovation.

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978-1-4614-2064-4 ►99,95 €

Y. Ohsawa, The University of Tokyo, Japan; Y. Nishihara, The University of Tokyo, Japan

Virtualization of Universities
Digital Media and the Organization of Higher Education Institutions

The purpose of this volume is to shape conceptual tools to understand the impact of new information and communication technologies (ICTs) on the organization of universities. Traditional research-based universities, the most typical representatives of the higher education system, find themselves challenged by the speed and the wide range of technical innovations, but also by a vast array of implicit assumptions and explicit promises associated with the distribution of digital media. The author observes that as universities increasingly use digital media (computers and the Internet) to accomplish their tasks, a transformation takes place in an evolutionary rather than in a revolutionary way. Using the University of Klagenfurt as an in-depth case study, he explores such dynamic issues as how digital media affect the practice of research, the preservation and dissemination of knowledge (for example, through publishing and archiving), and delivery of education at universities. More broadly, he considers issues of organizational culture and design, administration, and leadership as universities integrate digital technologies into all aspects of their operations.

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Th. Pfeffer, University of Klagenfurt, Vienna, Austria

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2012. XVII, 376 S. Hardcover
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J. Pérez Ríos, Universidad de Valladolid, Spain

Design and Diagnosis for Sustainable Organizations
The Viable System Method
How can organizations and their managers face the tremendous complexity of the current environment? How can their compliance with the requirements of sustainability be evaluated? And how can new organizations be structured to ensure their viability? This book addresses these questions in a very practical way, essentially combining systems theory with cybernetics to help managers to evaluate and shape organizations by making accessible the wealth of knowledge contained in these fields. Importantly, it also provides guidelines for its practical application. "This book is a masterpiece! It makes a timely appearance. José Pérez Ríos offers precisely the essential knowledge and insights which organizational experts and managers must have in our day. This is a complete blueprint for ensuring the viability - health, robustness, and high performance - of an organization." Prof. Dr. Markus Schwanger, University of St. Gallen, Switzerland

This is an exceptionally important book on Stafford Beer's great discovery of managerial cybernetics, the Viable System Model and its practical application to all kinds of organisations. The book comes right on time for mastering the great challenges of fundamental macro change in most parts of the world and of the dynamics of interconnected global systems. José Pérez Ríos, with his profound understanding of complex systems and their laws of complexity, control, self-regulation and self-organisation makes an invaluable contribution to the reliable functioning of institutions and to the viability of society as a whole."

Dr. Fredmund Malik, University of St. Gallen, Switzerland
Chairman of Malik Management
Javier Pérez Ríos' new book is a MUST for anyone interested in solving the central dilemma of complex social systems: how to achieve viability in spite of complexity. José explores and expands with great clarity Stafford Beer's ideas about Organizational Cybernetics. In addition, he presents a unique software to put Beer's 'Viable System Model' into practice. The book also contains a step by step explanation of Beer's 'Team Syntegrity', a tool to facilitate agreement without loosing variety. This is a very remarkable procedure of utmost relevance in today's world of conflicts. For all these reasons I highly recommend it."

Dr. Enrique G. Herrscher
CAPSIST - Center for Systems Thinking & ActionPast President ISSS, Int'l Society for the Systems Sciences

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M.E. Porter, Harvard Business School, Institute for Strategy and Competitiveness, Boston, MA, USA; C. Guth, München, Deutschland

Chancen für das deutsche Gesundheitssystem
Von Partikularinteressen zu mehr Patientennutzen

H. Plattner, Hasso-Plattner-Institut, Potsdam, Germany; C. Meinel, Hasso-Plattner-Institut, Potsdam, Germany; L. Leifer, Stanford University, CA, USA (Eds.)

Design Thinking Research
Studying Co-Creation in Practice
This book summarizes the results of the second year in the Design Thinking Research Program, a joint venture of Stanford University in Palo Alto and Hasso Plattner Institute in Potsdam. The authors have taken a closer look at the issue of co-creation from different points-of-view. The concept of co-creation can also be applied to the phase in which new ideas and related thought start to influence companies, the economy, our culture, and society. The perpetual pursuit for inventions, new creations and innovations is inherent in human nature. The concept behind co-creation may sound simple, however, it is both an essential element of Design Thinking and highly complex. It is about creating positive synergies for all parties involved.

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2012. XII, 277 p. 91 illus. (Understanding Innovation)
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K.G. Quinn, St. Norbert College, De Pere, WI, USA (Ed.)

The Economics of the National Football League
The State of the Art
This book lays down a marker as to the state of economists' understanding of the National Football League (NFL) by assembling sophisticated, critical surveys of by leading sports economists on major topics associated with the league. The book is divided into four parts. The first three chapters in Part I provide an overview of the business of the NFL from an economist’s perspective. Part II is a collection of surveys of the economics of the NFL’s most important revenue streams, including media, attendance, and merchandising. The NFL’s labor economics is the focus of Part III, with chapters on player and coach labor markets, the draft, and contract structure. Part IV includes essays on competitive balance, gambling, economic impacts of the Super Bowl, behavioral economic issues associated with the league, and antitrust issues. This book will appeal to sports economists, sports management
professionals, and policy-makers, and would be useful as a supplementary text for sports economics and management courses as well as a reference text. More on www.springer.com/978-1-4419-6289-8

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M. Ruth, University of Maryland, College Park, MD, USA; B. Hannon, University of Illinois, Urbana, IL, USA

Modeling Dynamic Economic Systems

Economists model the ways in which humans meet their needs using given endowments of resources and technologies. This book explores the dynamic processes in economic systems, concentrating on the extraction of resources that are required to meet economic needs. Using the STELLA® software, Modeling Dynamic Economic Systems applies methods of computer modeling to a wide range of real-world economic phenomena, demonstrating how to make informed decisions about economic performance and environmental quality. Sections of the book cover: methods for dynamic modeling economics with special emphasis on the microeconomic models of firms, modeling optimal use of both nonrenewable and renewable resources, and chaos in economic models. The book does not require a substantial background in mathematics or computer science and encourages all students and scholars to actively incorporate modeling into their education and research. A save-disabled version of STELLA and the computer models of this book are available at www.iseesystems.com/modelingeconomic systems. About the AuthorsMatthias Ruth is Roy F. Weston Chair in Natural Economics at the University of Maryland, College Park.Bruce Hannon is Jubilee Professor (Emeritus) of Liberal Arts and Sciences at the University of Illinois, Urbana-Champaign. About the SeriesThe availability of powerful, intuitive software for developing and running computer models of real-world phenomena promises a revolution in studying, teaching and thinking about complex problems that range from the functioning of a cell to that of an ecosystem to that of a national economy. The books in the series Modeling Dynamic Systems promote the spread of “systems thinking” by integrating state-of-the-art modeling techniques with the theories and concepts of specific disciplines or interdisciplinary topics. The unifying theme of the series is the ease, power, and transparency of model building. More on www.springer.com/978-1-4614-2208-2

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2012. XVII, 326 p. 244 illus., 205 in color. (Modeling Dynamic Systems) Hardcover
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A. Schneider, Stabsabteilung Wirtschaftspolitik der Wirtschaftskammer Österreich; R. Schmidpeter, Hochschule Ingolstadt (Eds.)

Corporate Social Responsibility

Verantwortungsvolle Unternehmensführung in Theorie und Praxis


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2012. XVII, 326 p. 244 illus., 205 in color. (Modeling Dynamic Systems) Hardcover
978-1-4614-1271-7
►89,95 €

E. Ullberg, George Mason University, Arlington, VA, USA

Trade in Ideas

Performance and Behavioral Properties of Markets in Patents

“This is a book for the times. Never have we been more in need of the wealth creation process that can only come from innovations subjected to the trial and error process of selection to decide what among all the experiments can be supported for further trial.”--Vernon L. Smith, Nobel Laureate in Economics 2002, Chapman University “Eskil Ullberg … departs from the error made by Arrow, an ambitious leap, perhaps, but one that is in this case warranted. Eskil seeks to explain more of the mechanisms by which property rights, specifically IP, can be sold by inventors to diversify risk and to monetize value. Using the methodology of experimental economics, he creates a controlled game in which players – rewarded with money returns, to the extent that they follow rules, manage risk, and execute smart trades – reveal how economic agents might generally transact in IP rights traded in organized exchanges. In testing how such trading institutions work, this research seeks to bring Adam Smith’s trade theory up to the modern day work on market design by such scholars as Vernon Smith, David Porter, Steve Rassenti, and Charles Plott.”--Thomas W. Hazlett, George Mason University, USA and Director of the Information Economy Project More on www.springer.com/978-1-4614-1271-7

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Project Management with Dynamic Scheduling
Baseline Scheduling, Risk Analysis and Project Control

The topic of this book is known as dynamic scheduling, and is used to refer to three dimensions of project management and scheduling: the construction of a baseline schedule and the analysis of a project schedule’s risk as preparation of the project control phase during project progress. This dynamic scheduling point of view implicitly assumes that the usability of a project’s baseline schedule is rather limited and only acts as a point of reference in the project life cycle. Consequently, a project schedule should especially be considered as nothing more than a predictive model that can be used for resource efficiency calculations, time and cost risk analyses, project tracking and performance measurement, and so on. In this book, the three dimensions of dynamic scheduling are highlighted in detail and are based on and inspired by a combination of academic research studies at Ghent University (www.ugent.be), in-company trainings at Vlerick Leuven Gent Management School (www.vlerick.com) and consultancy projects at OR-AS (www.or-as.be).

First, the construction of a project baseline schedule is a central theme throughout the various chapters of the book, and is discussed from a complexity point of view with and without the presence of project resources. Second, the creation of an awareness of the weak parts in a baseline schedule is discussed at the end of the two baseline scheduling parts as schedule risk analysis techniques that can be applied on top of the baseline schedule. Third, the baseline schedule and its risk analyses can be used as guidelines during the project control step where actual deviations can be corrected within the margins of the project’s time and cost reserves.

More on www.springer.com/978-3-642-25174-0

Financial Performance Measures and Value Creation: the State of the Art

The choice of financial performance measures is one of the most critical challenges facing organizations. The accounting-based measures of financial performance have been viewed as inadequate, as firms began focusing on shareholder value as the primary long-term objective of the organization. Hence, value-based metrics were devised that explicitly incorporate the cost of capital into performance calculations. Despite the increasing emphasis on these value-based measures, no definitive evidence exists of which metric works better than others, and on the extent to which any of them is superior to traditional accounting measures. In this scenario, the objective of this book is contributing to the ongoing dialogue on the appropriateness of different financial performance measures, by providing a systematic and updated review of the major value-based measures, by highlighting their respective strengths and weaknesses and by comparing the main international empirical evidence on their effectiveness. This book can be a powerful tool for guiding managers and graduate students in the “tangled forest” of the existing metrics, by providing them with the quick, but adequate knowledge for consistently adopting them.


Ethical Dimensions of the Economy
Making Use of Hegel and the Concepts of Public and Merit Goods

This book reflects philosophically about the socio-political dimension of economics. Part I provides normative reflections on the economy: Section I reflects on the interconnections between the multiple discourses on the economy, section II presents Hegel’s claim that the economic order is an ethical institution and defends his ontological view of the economy against the one of Adam Smith. Section III discusses with economists about their concepts of public and merit goods. This section defends a Hegelian ontology of the economy through an analysis of technical concepts used by economists.

More on www.springer.com/978-3-540-77110-4

Promoting Balanced Competitiveness Strategies of Firms in Developing Countries

Since the pioneering work of Joseph Schumpeter (1942), it has been assumed that innovations typically play a key role in firms’ competitiveness. This assumption has been applied to firms in both developed and developing countries. However, the innovative capacities and business environments of firms in developing countries are fundamentally different from those in developed countries. It stands to reason that innovation and competitiveness models based on developed countries may not apply to developing countries. In this volume, Vivienne Wang and Elias G. Carayannis apply both theoretical approaches and empirical analysis to explore the dynamics of innovation in developing countries, with a particular emphasis on R&D in manufacturing firms. In so doing, they present an alternative to Michael Porter’s Competitive Advantage Model—a Competitive Position Model that focuses on incremental and adaptive innovations that are more appropriate than radical innovations for developing countries. Their research addresses such questions as: Do innovations advance the competitive positions of manufacturing firms in developing countries? Does the pace of innovation matter, in particular, in socio-economic and socio-political contexts? To what degree can national innovation systems and policies influence development? To what extent do a firm’s innovation commitments correlate with the protection of intellectual property rights? What roles do foreign direct investment and relationships with clusters and networks play? The resulting analysis not
Switchpoints for the Future of Logistics
Roland Berger Strategy Consultants and the University of St. Gallen’s Chair of Logistics Management conducted this study in order to identify and assess switchpoints that will shape the future of the logistics industry. Rather than making projections focused on a fixed point in time, the authors instead aimed to identify the most unpredictable developments that could impact logistics. Consequently, the topics for discussion range from fairly specific near-future developments to more exploratory “blue-sky” topics. Throughout their highly interesting discussions with respondents and experts, the authors encountered a wide range of uncommon and unexpected, but not at all unlikely and experts, the authors encountered a wide range of uncommon and unexpected, but not at all unlikely.

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Designing Public Procurement Policy in Developing Countries: How to Foster Technology Transfer and Industrialization in the Global Economy
This book presents effective strategies for developing countries to leverage their public sector demand for manufactured imports to promote industrialization, trade, and technology transfer. Technology transfer and its absorption is considered one of the most crucial and complicated challenges for developing countries, which are characterized by insufficient infrastructure, low technological intensity of the domestic capital stock, and high levels of manufactured imports. Which strategies and policy tools can governments employ to link demand with technology transfer, thereby enhancing absorption capacity and development in emerging economies? This book is part of a broader project launched by PGlobal Global Advisory and Training Services Ltd., in cooperation with Istanbul Commerce University (İTÜCU) and the Scientific and Technological Research Council of Turkey (TÜBİTAK). The contributors to this book are policymakers, academicians, and experts who are working together to identify problems and develop policy recommendations for public procurement with respect to economic development. The book includes theoretical, empirical, and case study analyses of technology transfer mechanisms, public procurement policies, and countertrade and offset strategies. The lessons learned from these chapters will be of interest to both academics and policymakers concerned with technology transfer, industrial policy, and economic development.

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2012. XIX, 268 p. 71 illus., 46 in color. Hardcover
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Health and Animal Agriculture in Developing Countries
This book provides an overview of the state of animal agriculture and present methodologies and proposals to develop policies that result in sustainable and profitable animal production that will protect human and environmental health, enhance livelihood of smallholders and meet consumer needs. The book combines lessons of the past, factual foundation to understand the present, analytical tools to design and improve policies, case studies that provide both empirical grounding and applications of some of the strategies suggested in this book, and finally, a proposal for the way forward. The book is divided into five parts. The first section of the book will provide an analysis of the evolution of animal agriculture in the context of the development of farming systems over the years. The second part of the book will provide an overview of some of the major strands of literature on the economics and health of animal agriculture. The third and fourth sections of the book emphasize an important case study, avian influenza with applications in Southeast Asia and Africa. Finally, the book summarizes the state of knowledge and current trajectory of animal agriculture and provides policy recommendations to both control animal disease and support research that would lead to prosperous, sustainable animal agriculture in the future. This volume contains contributions from leading researchers in agricultural economics environmental economics, veterinary science, and natural resource management and will be of interest to academics and students in those fields as well as policy-makers in government or international organizations that focus on animal agriculture, health and the environment.

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