

Renewable Energy Finance

Theory and Practice



Santosh Raikar
Seabron Adamson



[Books] Renewable Energy Finance: Theory And Practice

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Renewable Energy Finance-Santosh Raikar 2019-11 Renewable Energy Finance: Theory and Practice integrates the special characteristics of renewable energy with key elements of project finance. Through a mixture of fundamental analysis and real-life examples, readers learn how renewable energy project finance works in actual deals that mix finance, public policy, legal, engineering and environmental issues. The skills developed in analyzing non-recourse cash flow-based finance are applicable not only to green energy, but also apply more widely in project finance and infrastructure investing. The book’s comparisons of developed and developing countries make it valuable to readers worldwide. Presents real world cases in each chapter Includes a companion website that contains renewable energy project finance models and other resources Supports efforts to achieve environmental sustainability through renewable financing projects and cleaner production techniques

Renewable Energy Finance-Santosh Raikar 2019-12-03 Renewable Energy Finance: Theory and Practice integrates the special characteristics of renewable energy with key elements of project finance. Through a mixture of fundamental analysis and real-life examples, readers learn how renewable energy project finance works in actual deals that mix finance, public policy, legal, engineering and environmental issues. The skills developed in analyzing non-recourse cash flow-based finance are applicable not only to green energy, but also apply more widely in project finance and infrastructure investing. The book’s comparisons of developed and developing countries make it valuable to readers worldwide. Presents real world cases in each chapter Includes a companion website that contains renewable energy project finance models and other resources Supports efforts to achieve environmental sustainability through renewable financing projects and cleaner production techniques

Renewable Energy Finance-Santosh Raikar 2019-12-04 Renewable Energy Finance: Theory and Practice integrates the special characteristics of renewable energy with key elements of project finance. Through a mixture of fundamental analysis and real-life examples, readers learn how renewable energy project finance works in actual deals that mix finance, public policy, legal, engineering and environmental issues. The skills developed in analyzing non-recourse cash flow-based finance are applicable not only to green energy, but also apply more widely in project finance and infrastructure investing. The book’s comparisons of developed and developing countries make it valuable to readers worldwide. Presents real world cases in each chapter Includes a companion website that contains renewable energy project finance models and other resources Supports efforts to achieve environmental sustainability through renewable financing projects and cleaner production techniques

Renewable Energy Finance: Funding The Future Of Energy (Second Edition)-Charles W Donovan 2020-05-08 Foreword by Lord Browne of MadingleyReviews of the First Edition:The entire text is quite readable and can be moved through with relative ease. This reviewer heartily recommends that, regardless of your background, you read this book to really get a grasp of the cutting-edge of climate finance.'LSE Review of BooksRenewable Energy Finance (Second Edition) describes in rich detail current best practices and evolving trends in clean energy investing. With contributions by some of the world’s leading experts in energy finance, the book documents how investors are spending over \$300 billion each year on financing renewable energy and positioning themselves in a growing global investment market. This second edition documents, with practical examples, the ways in which investors have funded over \$2.6 trillion in solar, wind, and other renewable energy projects over the past decade. The book will be a go-to reference manual for understanding the factors that shape risk and return in renewable energy, the world’s fastest growing industrial sector. The book is suitable for executives new to the field, as well as advanced business students.Edited by Dr Charles Donovan, Principal Teaching Fellow at Imperial College Business School and formerly Head of Structuring and Valuation for Global Power at BP, the book will give readers a unique insiders' perspective on how renewable energy deals actually get done.

Renewable Energy Finance-Charles W. Donovan 2020-04-07 This book will give readers a unique insiders' perspective on how renewable energy deals actually get done. Renewable Energy Finance (Second Edition) describes in rich detail current best practices and evolving trends in clean energy investing. With contributions by some of the world’s leading experts in energy finance, the book documents how investors are spending over \$300 billion each year on financing renewable energy and positioning themselves in a growing global investment market. This second edition documents, with practical examples, the ways in which investors have funded over \$2.6 trillion in solar, wind, and other renewable energy projects over the past decade. The book will be a go-to reference manual for understanding the factors that shape risk and return in renewable energy, the world’s fastest growing industrial sector. Renewable Energy Finance (Second Edition) is suitable for executives new to the field, as well as advanced business students. This new edition will fill an important vacuum in the published book market. Despite exploding interest in renewable energy investing amongst corporate managers, government policymakers, and advanced business students, there is no text in the market that provides an insider’s perspective on how large-scale renewable energy projects are funded. Over the last 10 years, many books about renewable energy have been written from an engineering perspective, focusing on technical aspects of clean energy technologies. Books written from a finance & economics perspective have dealt with renewable energy as a sub-set of the energy market or infrastructure financing more generally. Titles in the mass market have focused almost exclusively on investing in shares of renewable energy companies, not renewable energy power projects. Renewable Energy Finance (Second Edition) bridges these gaps by serving an audience of industry professionals and finance scholars with insights and analysis from leading investors putting their firms’ money to work in utility-scale renewable energy projects. Essays collected in the book describe project financing vehicles for a range of renewable energy technologies including solar photovoltaic power plants, offshore wind farms, and bio-fuel refineries, as well as financing practices in a diverse set of countries.

Energy Finance and Economics-Betty Simkins 2013-02-19 Thought leaders and experts offer the most current information and insights into energy finance Energy Finance and Economics offers the most up-to-date information and compelling insights into the finance and economics of energy. With contributions from today’s thought leaders who are experts in various areas of energy finance and economics, the book provides an overview of the energy industry and addresses issues concerning energy finance and economics. The book focuses on a range of topics including corporate finance relevant to the oil and gas industry as well as addressing issues of unconventional, renewable, and alternative energy. A timely compendium of information and insights centering on topics related to energy finance Written by Betty and Russell Simkins, two experts on the topic of the economics of energy Covers special issues related to energy finance such as hybrid cars, energy hedging, and other timely topics In one handy resource, the editors have written the best-thinking on energy finance.

Solar Power Finance Without The Jargon-Chase Jenny 2019-07-04 Solar power has become big business, with \$131 billion invested in 2018, up from just \$11.2 billion in 2004 but down from \$171 billion in 2017 as unit costs fell. New installed capacity grew from 1.1GW in 2004 to about 107GW in 2018, a steady rise as solar begins to compete with fossil fuels on cost and to be built in nearly every country.This is a book for the solar workers of the future, a business book for those without a business or economics background and those simply curious about major shifts happening in the world energy economy. Key financial, economic and technical concepts are interspersed with the history of the first decade of cheap solar power, and the author’s experience of being part of a successful startup in the clean energy sector.Related Link(s)

Project Finance in Theory and Practice-Stefano Gatti 2007-11-07 Project finance is a fast-growing area of capital investment for major infrastructure and other large projects. Financing such projects as EuroDisney, airports, highways, tunnels, schools, hospitals, and other large projects presents a complex and interesting challenge that the speciality of project finance takes on wholeheartedly, combining financial engineering with legal and contractual expertise to develop various financing options. In this book, Stefano Gatti of Bocconi University describes the theory that underpins this cutting-edge industry, and then provides illustrations and examples from actual practice to illustrate that theory. At key points in the book, Gatti brings in other project finance experts who share their specialized knowledge on the legal issues and the role of advisors in project finance deals. Foreword by William Megginson, Professor and Rainbolt Chair in Finance, Price College of Business, The University of Oklahoma Comprehensive coverage of theory and practice of project finance as it is practiced today in Europe and North America

Harnessing Renewable Energy in Electric Power Systems-Boaz Moselle 2010 Reflecting its reliance on fossil fuels, the electric power industry produces the majority of the world’s greenhouse gas emissions. The need for a revolution in the industry becomes further apparent given that ‘decarbonization’ means an increasing electrification of other sectors of the economy◆in particular, through a switch from gasoline to electric vehicles. Of the options for producing electric power without significant greenhouse gas emissions, renewable energy is most attractive to policymakers, as it promises increased national self-reliance on energy supplies and the creation of new industries and jobs, without the safety and political concerns of nuclear power or the unproven technology of carbon capture and storage.Drawing on both economic theory and the experiences of the United States and EU member states, Harnessing Renewable Energy addresses the key questions surrounding renewable energy policies. How appropriate is the focus on renewable power as a primary tool for reducing greenhouse gas emissions? If renewable energy is given specific support, what form should that support take? What are the implications for power markets if renewable generation is widely adopted? Thorough and well-evidenced, this book will be of interest to a broad range of policymakers, the electric power industry, and economists who study energy and environmental issues.

Handbook of Environmental and Sustainable Finance-Vikash Ramiah 2015-10-28 The use of financial concepts and tools to shape development is hardly new, but their recent adoption by advocates of sustainable environmental management has created opportunities for innovation in business and regulatory groups. The Handbook of Environmental and Sustainable Finance summarizes the latest trends and attitudes in environmental finance, balancing empirical research with theory and applications. It captures the evolution of environmental finance from a niche scholarly field to a mainstream subdiscipline, and it provides glimpses of future directions for research. Covering implications from the Kyoto and Paris Protocols, it presents an intellectually cohesive examination of problems, opportunities, and metrics worldwide. Introduces the latest developments in environmental economics, sustainable accounting work, and environmental/sustainable finance Explores the effects of environmental regulation on the economy and businesses Emphasizes research about the trade-environmental regulation nexus, relevant for economics and business students

Energy and Finance-André Dorsan 2016-08-13 This book analyses how socially responsible investments as well as the rising importance of Islamic finance are linked to the shift towards renewable energy. Academics and practitioners in the field take a global perspective and present case studies from several countries. The book is divided into three parts: The first part sheds new light on the energy shift towards renewable energy. The second shows the increasing interest of investors in sustainability, and the authors argue that investors not only look at expected returns and risks, but also at social returns. Finally, the third part explains the need for social returns in Islamic finance, which cannot be explained by traditional finance theory. This is the fifth volume in a series on energy organized by the Centre for Energy and Value Issues (CEVI).

Corporate and Project Finance Modeling-Edward Bodmer 2014-11-10 A clear and comprehensive guide to financial modeling and valuation with extensive case studies and practice exercises Corporate and Project Finance Modeling takes a clear, coherent approach to a complex and technical topic. Written by a globally-recognized financial and economic consultant, this book provides a thorough explanation of financial modeling and analysis while describing the practical application of newly-developed techniques. Theoretical discussion, case studies and step-by-step guides allow readers to master many difficult modeling problems and also explain how to build highly structured models from the ground up. The companion website includes downloadable examples, templates, and hundreds of exercises that allow readers to immediately apply the complex ideas discussed. Financial valuation is an in-depth process, involving both objective and subjective parameters. Precise modeling is critical, and thorough, accurate analysis is what bridges the gap from model to value. This book allows readers to gain a true mastery of the principles underlying financial modeling and valuation by helping them to: Develop flexible and accurate valuation analysis incorporating cash flow waterfalls, depreciation and retirements, updates for new historic periods, and dynamic presentation of scenario and sensitivity analysis; Build customized spreadsheet functions that solve circular logic arising in project and corporate valuation without cumbersome copy and paste macros; Derive accurate measures of normalized cash flow and implied valuation multiples that account for asset life, changing growth, taxes, varying returns and cost of capital; Incorporate stochastic analysis with alternative time series equations and Monte Carlo simulation without add-ins; Understand valuation effects of debt sizing, sculpting, project funding, re-financing, holding periods and credit enhancements. Corporate and Project Finance Modeling provides comprehensive guidance and extensive explanation, making it essential reading for anyone in the field.

Analytical Methods for Energy Diversity and Security-Morgan Bazilian 2009-03-02 Analytical Methods for Energy Diversity and Security is an ideal volume for professionals in academia, industry and government interested in the rapidly evolving area at the nexus between energy and climate change policy. The cutting-edge international contributions allow for a wide coverage of the topic. Analytical Methods for Energy Diversity and Security focuses on the consideration of financial risk in the energy sector. It describes how tools borrowed from financial economic theory, in particular mean-variance portfolio theory, can provide insights on the costs and benefits of diversity, and thus inform investment decision making in conditions of uncertainty. It gives the reader an in-depth understanding of how to manage risk at a time when the world’s focus is on this area. The book provides insights from leading authorities in the area of energy security. It gives readers abundant, rigorous analysis and guidance at a critical time in facing the twin challenges of energy security and climate change. The book also highlights the role of clean energy technology in moving towards future diverse and intelligent electricity systems. It will be a trusted, first point of reference for decision-makers in the field of energy policy. The book includes a foreword by the 2007 Nobel Peace Prize winner. All royalties from sale of this book will be donated to charities working in the energy sector in the developing world. Theoretical underpinning and applied use of Portfolio theory in the energy sector In-depth consideration of risk Contributions from leading international energy economists Innovative methodologies for thinking about energy security and diversity

Harness It-Michael Ginsberg 2019-06-03 Considering the increasing importance of renewable energy for climate change mitigation, this book provides an overview of how renewable energy sources are integrated into the grid to promote better understanding among students and business professionals in the utility sector and across industries. Following an overview of the technical and historical development of the electric grid in the U.S. and Europe, this guide reviews hydropower, solar photovoltaics, wind energy, fuel cell, and battery technologies. The author also presents models for the connection of these renewable energy sources from large-scale to on-site and community power/microgrids. The models are explained through case studies in the developed and developing worlds that explore how technical evaluations are conducted, policy incentives implemented, and project finance applied. Considering the increasing importance of renewable energy for climate change mitigation, this book provides an overview of how renewable energy sources are integrated into the grid to promote better understanding among students and business professionals in the utility sector and across industries. Most literature on grid interconnection is highly technical, assuming an in-depth understanding of electrical engineering. With the rise of clean technologies and the diversity of interconnection models, this guide fills a gap in the existing literature by equipping non-technical business managers with the salient information they need to make critical decisions for their organizations.

Green Banking-Jörg Böttcher 2020-07-20 Green Banking is the first guide encompassing all the disciplines necessary to realize renewable energy projects. This book focuses on cost-competitive and mature technologies, and on the processes enabling to develop, finance and execute such utility-scale projects. The book starts with the aspects relevant for every form of renewable energy. It covers essential themes such as the role of renewables amid a changing energy world, the importance of the regulatory regime, its social acceptance and bankability criteria, to name only a few. Chapters describe project financings vehicles for a range of renewable energy technologies including solar photovoltaic power plants, onshore wind farms and offshore wind farms. The book give readers a unique perspective on how renewable energy projects are realized, and is a go-to reference manual for understanding how the different project stakeholders act. All of the articles are provided by authors with an ample experience in renewable energies and many years experience. This book is especially useful for people working in this industry or students willing to get better knowledge out of their field of experience.

Renewable Energy Resources-John Twidell 2006 "This second edition maintains the book’s basis on fundamentals, whilst including experience gained from the rapid growth of renewable energy technologies as secure national resources and for climate change mitigation, more extensively illustrated with case studies and worked problems. The presentation has been improved throughout, along with a new chapter on economics and institutional factors. Each chapter begins with fundamental theory from a scientific perspective, then considers applied engineering examples and developments, and includes a set of problems and solutions and a bibliography of printed and web-based material for further study. Common symbols and cross referencing apply throughout, essential data are tabulated in appendices. Sections on social and environmental aspects have been added to each technology chapter." -- back cover.

Energy Investments-Ricardo G. Barcelona 2017-11-14 This book examines what lies behind the uncertainties surrounding the fuel and power markets. Exploring the role of renewables and how they potentially disrupt or create opportunities, it challenges widely accepted wisdoms in investment. The author asks questions such as: Are “business as usual” strategies that favour fossil fuels the best route to future prosperity? What prospects do firms face when their competitors diversify into renewables? Why do generous subsidies to renewables often fail to achieve wide-scale deployment? Illustrating how real options and option games reasoning yield vastly different insights from those gained from NPVs, Energy Investments offers case studies and simulations to demonstrate how firms can benefit from the methods it showcases.

Energy Economics-Peter Zweifel 2017-03-27 This book provides an introduction to energy economics. It shows how to apply general economic theory as well as empirical and advanced econometric methods to explain the drivers of energy markets and their development. Readers learn about the specific properties of energy markets as well as the physical, technological, environmental, and geopolitical particularities of energy sources and products. The book covers all types of energy markets, ranging from liquid fuels, gaseous fuels, and solid fuels to electricity. It also addresses emission allowances, energy efficiency, and nuclear risks. The authors discuss the engineering properties of energy technologies including renewables, the economics of natural resources and environmental protection, market liberalization, and energy trade as well as the experience of the German energy transformation. This book will serve students as a textbook and practitioners as a reference for their understanding of energy markets and their development.

Renewable Power Financing-John J. Marciano, III 2017-08-05 This book pulls together all of the most important tax materials needed to structure renewable energy investments and financings. This includes the relevant tax code sections, treasury regulations, rulings and more.

Renewable Energy-Bruce Usher 2019 Renewable energy in the twenty-first century -- Energy transitions : fire to electricity -- The rise of renewables -- Renewable wind energy -- Renewable solar energy -- Financing renewable energy -- Energy transitions : oats to oil -- The rise of electric vehicles -- Parity -- Convergence -- Consequences -- No time to lose

Encyclopedia of Supramolecular Chemistry-J. L. Atwood 2004 Covers the fundamentals of supramolecular chemistry; supramolecular advancements and methods in the areas of chemistry, biochemistry, biology, environmental and materials science and engineering, physics, computer science, and applied mathematics.

Handbook Of Energy Finance: Theories, Practices And Simulations-Duc Khuong Nguyen 2020-01-30 Modeling the dynamics of energy markets has become a challenging task. The intensification of their financialization since 2004 had made them more complex but also more integrated with other tradable asset classes. More importantly, their large and frequent fluctuations in terms of both prices and volatility, particularly in the aftermath of the global financial crisis 2008-2009, posit difficulties for modeling and forecasting energy price behavior and are primary sources of concerns for macroeconomic stability and general economic performance.This handbook aims to advance the debate on the theories and practices of quantitative energy finance while shedding light on innovative results and technical methods applied to energy markets. Its primary focus is on the recent development and applications of mathematical and quantitative approaches for a better understanding of the stochastic processes that drive energy market movements. The handbook is designed for not only graduate students and researchers but also practitioners and policymakers.

Project Development in the Solar Industry-Albie Fong 2012-12-05 This book provides an extensive overview of utility scale solar project development and the various tasks required to bring large solar power plants from plans to realities. The various topics have been organized and presented in a way to clearly define important development fundamentals including basic business and legal considerations. The reader is also guided through the more complex aspects of renewable energy development such as how to choose the ideal project site. Further, while the book is appropriate for a cover to cover read-through it is also designed to be an excellent go-to-reference, a HANDBOOK FOR RENEWABLE ENERGY DEVELOPMENT. Edited by: Albie Fong and Jesse Tippett with contributions from: Arturo Alvarez, Jeffery Atkin, William DuFour III, Perry Fontana, William Hugron, Jason Keller, Tyler M. Kropf, Michael Mendelsohn, Brett Prior, Scott Reynolds, Pilar Rodriguez-Idáñez, Katherine Ryzhaya Poster and Alfonso Tovar ELECTRONIC ENHANCEMENTS The book’s companion website http://www.solarbookteam.com provides contact information for all authors to the book and access to the key resources highlighted in the text. This tailored media platform provides supplemental and exclusive information that is up-to-date with the present state of the solar industry.

Citrus-Pierre Laszlo 2008-10 Laszlo traces the spectacular rise and spread of citrus across the globe, from southeast Asia in 4000 BC to modern Spain and Portugal, whose explorers introduced the fruit to the Americas. This book explores the numerous roles that citrus has played in agriculture, horticulture, cooking, nutrition, religion, and art.

The Political Economy of Clean Energy Transitions-Douglas Jay Arent 2017 A volume on the political economy of clean energy transition in developed and developing regions, with a focus on the issues that different countries face as they transition from fossil fuels to lower carbon technologies.

Principles of Project Finance-E. R. Yescombe 2013-11-13 The Second Edition of this best-selling introduction for practitioners uses new material and updates to describe the changing environment for project finance. Integrating recent developments in credit markets with revised insights into making project finance deals, the second edition offers a balanced view of project financing by combining legal, contractual, scheduling, and other subjects. Its emphasis on concepts and techniques makes it critical for those who want to succeed in financing large projects. With extensive cross-references and a comprehensive glossary, the Second Edition presents anew a guide to the principles and practical issues that can commonly cause difficulties in commercial and financial negotiations. Provides a basic introduction to project-finance and its relationship with other financing techniques Describes and explains: sources of project finance; typical commercial contracts (e.g., for construction of the project and sale of its product or services) and their effects on project-finance structures; project-finance risk assessment from the points of view of lenders, investors, and other project parties; how lenders and investors evaluate the risks and returns on a project; the rôle of the public sector in public-private partnerships and other privately-financed infrastructure projects; how all these issues are dealt with in the financing agreements

Building Scientific Apparatus-John H. Moore 2009-06-25 Unrivaled in its coverage and unique in its hands-on approach, this guide to the design and construction of scientific apparatus is essential reading for every scientist and student of engineering, and physical, chemical, and biological sciences. Covering the physical principles governing the operation of the mechanical, optical and electronic parts of an instrument, new sections on detectors, low-temperature measurements, high-pressure apparatus, and updated engineering specifications, as well as 400 figures and tables, have been added to this edition. Data on the properties of materials and components used by manufacturers are included. Mechanical, optical, and electronic construction techniques carried out in the lab, as well as those let out to specialized shops, are also described. Step-by-step instruction supported by many detailed figures, is given for laboratory skills such as soldering electrical components, glassblowing, brazing, and polishing.

Group Work with Adolescents, Third Edition-Andrew Malekoff 2015-11-17 A trusted course text and professional resource, this comprehensive book delves into all aspects of planning and conducting strengths-based group work with adolescents. In an accessible, down-to-earth style, Andrew Malekoff spells out the principles of effective group practice. Extensive clinical illustrations show how successful group leaders engage teens in addressing tough issues—including violence, sexuality, prejudice, social isolation, and substance abuse—in a wide range of settings. Normative issues that adolescents face in the multiple contexts of their lives are lucidly explained. Packed with creative ideas and activities, the book helps readers develop their skills as confident, reflective practitioners. New to This Edition *Significantly revised chapters on group work essentials, school-based practice, and trauma. *Additional topics: social media and cyberbullying, expressive and animal-assisted therapies, mindfulness, adolescent brain development, and more. *Updated practice principles, information, and references. *Numerous new practice illustrations.

Action in Perception-Alva Noe 2004 An argument that perception is something we do, not something that happens to us: not a process in the brain, but a skillful bodily activity.

Climate Finance: Theory And Practice-Markandya Anil 2017-01-05 How is the struggle against climate change financed? Climate Finance: Theory and Practice gives an overview of the key debates that have emerged in the field of climate finance, including those concerned with efficiency, equity, justice, and contribution to the public good between developed and developing countries. With the collaboration of internationally renowned experts in the field of climate finance, the authors of this book highlight the importance of climate finance, showing the theoretical aspects that influence it, and some practices that are currently being implemented or have been proposed to finance mitigation and adaptation policies in the developed and developing world.

The Origins of Major War-Dale C. Copeland 2013-02-15 One of the most important questions of human existence is what drives nations to war—especially massive, system-threatening war. Much military history focuses on the who, when, and where of war; in this riveting book, Dale C. Copeland brings attention to bear on why governments make decisions that lead to, sustain, and intensify conflicts. Copeland presents detailed historical narratives of several twentieth-century cases, including World War I, World War II, and the Cold War. He highlights instigating factors that transcend individual personalities, styles of government, geography, and historical context to reveal remarkable consistency across several major wars usually considered dissimilar. The result is a series of challenges to established interpretive positions and provocative new readings of the causes of conflict. Classical realists and neorealists claim that dominant powers initiate war. Hegemonic stability realists believe that wars are most often started by rising states. Copeland offers an approach stronger in explanatory power and predictive capacity than these three brands of realism: he examines not only the power resources but the

shifting power differentials of states. He specifies more precisely the conditions under which state decline leads to conflict, drawing empirical support from the critical cases of the twentieth century as well as major wars spanning from ancient Greece to the Napoleonic Wars.

Methods of Theoretical Psychology-Andre Kukla 2001-05-11 The aim of this book is not to impart a substantive knowledge of core psychological theories, or even to analyze critically selected theories. Instead, it is to prepare the reader to analyze and advance the theoretical literature in any tradition. Theoretical psychology stands in the same relation to psychology as theoretical physics does to physics. The traditional way to study theoretical psychology is to take up one approach after another—behavioral, psychoanalytic, cognitive, and so on. The aim of this book is not to impart a substantive knowledge of core psychological theories, or even to analyze critically selected theories. Instead, it is to prepare the reader to analyze and advance the theoretical literature in any tradition. A good theoretician should be able to contribute to the study of psychoanalytic theory as readily as to behavioral theory. The skills required are the same. Instead of covering a sequence of theories, therefore, the book is organized around types of theoretical activities. It is not a work in theoretical psychology; it is a book about theoretical psychology. It also confronts psychologists' underestimation of the variety and the significance of theoretical work. Many theoretical issues do not call for empirical research—they require nothing but thinking.

Asia Before Europe-K. N. Chaudhuri 1990 This book explores the dynamic interaction between economic life, society and civilisation in the regions around and beyond the Indian Ocean during the period from the rise of Islam to 1750. Within a distinctive theory of comparative history, Professor Chaudhuri analyses how the identity of different Asian civilisations was established. He examines the structural features of food habits, clothing, architectural styles and housing; the different modes of economic production; and the role of crop raising, pastoral nomadism, and industrial activities for the main regions of the Indian Ocean. In an original and perceptive conclusion, the author demonstrates how Indian Ocean societies were united or separated from one another by a conscious cultural and linguistic identity. However, there was a deeper structure of unities created by a common ecology, technology, technology of economic production, traditions of government, theory of political obligations and rights, and a shared historical experience. His theory enables the author to show that the real Indian Ocean was an area that extended historically from the Red Sea and the Persian Gulf to the sea which lies beyond Japan.

Superpower-Russell Gold 2020-11-10 Meet Michael Skelly, the man boldly harnessing wind energy that could power America’s future and break its fossil fuel dependence in this “essential, compelling look into the future of the nation’s power grid” (Bryan Burrough, author of The Big Rich). The United States is in the midst of an energy transition. We have fallen out of love with dirty fossil fuels and want to embrace renewable energy sources like wind and solar. A transition from a North American power grid that is powered mostly by fossil fuels to one that is predominantly clean is feasible, but it would require a massive building spree—wind turbines, solar panels, wires, and billions of dollars would be needed. Enter Michael Skelly, an infrastructure builder who began working on wind energy in 2000 when many considered the industry a joke. Eight years later, Skelly helped build the second largest wind power company in the United States—and sold it for \$2 billion. Wind energy was no longer funny—it was well on its way to powering more than 6% of electricity in the United States. Award-winning journalist, Russel Gold tells Skelly’s story, which in many ways is the story of our nation’s evolving relationship with renewable energy. Gold illustrates how Skelly’s company, Clean Line Energy, conceived the idea for a new power grid that would allow sunlight where abundant to light up homes in the cloudy states thousands of miles away, and take wind from the Great Plains to keep air conditioners running in Atlanta. Thrilling, provocative, and important, Superpower is a fascinating look at America’s future.

Financialization and Strategy-Julie Froud 2006-04-18 Considering the recent impact of the capital market on corporate strategy, this text analyzes, through argument and supportive case studies, how pressures from the capital bull market of the 1990s and bear market of the early 2000s, have reshaped management action and calculation in large, publicly quoted US and UK corporations. Beginning with the dissatisfaction with classical strategy and its limited engagement with the processes of financialization, the book moves on to cover three detailed company case studies (General Electric, Ford and GlaxoSmithKline) which use long run financial data and analysis of company and industry narratives to illustrate and explore key themes. The book emphasizes the importance of company and industry narratives, while also analyzing long term financial results, and helps to explain the limits of management action and the burden of expectations placed on corporate governance. Presenting financial and market information on trajectory in an accessible way, this book provides a distinctive, critical social science account of management in large UK and US corporations, and it is a valuable resource for students, scholars and researchers of business, management, political economy and non-mainstream economics. short listed for the 2007 IPEG Book Prize

Fundamentals and Applications of Renewable Energy-Mehmet Kanoglu 2019-06-14 Master the principles and applications of today’s renewable energy sources and systems Written by a team of recognized experts and educators, this authoritative textbook offers comprehensive coverage of all major renewable energy sources. The book delves into the main renewable energy topics such as solar, wind, geothermal, hydropower, biomass, tidal, and wave, as well as hydrogen and fuel cells. By stressing real-world relevancy and practical applications, Fundamentals and Applications of Renewable Energy helps prepare students for a successful career in renewable energy. The text contains detailed discussions on the

thermodynamics, heat transfer, and fluid mechanics aspects of renewable energy systems in addition to technical and economic analyses. Numerous worked-out example problems and over 850 end-of-chapter review questions reinforce main concepts, formulations, design, and analysis. Coverage includes: Renewable energy basics Thermal sciences overview Fundamentals and applications of Solar energy Wind energy Hydropower Geothermal energy Biomass energy Ocean energy Hydrogen and fuel cells • Economics of renewable energy • Energy and the environment

Seeking Spatial Justice-Edward W. Soja 2013-11-30 In 1996, the Los Angeles Bus Riders Union, a grassroots advocacy organization, won a historic legal victory against the city’s Metropolitan Transit Authority. The resulting consent decree forced the MTA for a period of ten years to essentially reorient the mass transit system to better serve the city’s poorest residents. A stunning reversal of conventional governance and planning in urban America, which almost always favors wealthier residents, this decision is also, for renowned urban theorist Edward W. Soja, a concrete example of spatial justice in action. In Seeking Spatial Justice, Soja argues that justice has a geography and that the equitable distribution of resources, services, and access is a basic human right. Building on current concerns in critical geography and the new spatial consciousness, Soja interweaves theory and practice, offering new ways of understanding and changing the unjust geographies in which we live. After tracing the evolution of spatial justice and the closely related notion of the right to the city in the influential work of Henri Lefebvre, David Harvey, and others, he demonstrates how these ideas are now being applied through a series of case studies in Los Angeles, the city at the forefront of this movement. Soja focuses on such innovative labor-community coalitions as Justice for Janitors, the Los Angeles Alliance for a New Economy, and the Right to the City Alliance; on struggles for rent control and environmental justice; and on the role that faculty and students in the UCLA Department of Urban Planning have played in both developing the theory of spatial justice and putting it into practice. Effectively locating spatial justice as a theoretical concept, a mode of empirical analysis, and a strategy for social and political action, this book makes a significant contribution to the contemporary debates about justice, space, and the city.

The Grid-Gretchen Bakke 2016-07-26 One of Bill Gates’s Favorite Books of 2016 A revelatory look at our national power grid—how it developed, its current flaws, and how it must be completely reimagined for our fast-approaching energy future. America’s electrical grid, an engineering triumph of the twentieth century, is turning out to be a poor fit for the present. It’s not just that the grid has grown old and is now in dire need of basic repair. Today, as we invest great hope in new energy sources—solar, wind, and other alternatives—the grid is what stands most firmly in the way of a brighter energy future. If we hope to realize this future, we need to reimagine the grid according to twenty-first-century values. It’s a project which forces visionaries to work with bureaucrats, legislators with storm-flattened communities, moneymen with hippies, and the left with the right. And though it might not yet be obvious, this revolution is already well under way. Cultural anthropologist Gretchen Bakke unveils the many facets of America’s energy infrastructure, its most dynamic moments and its most stable ones, and its essential role in personal and national life. The grid, she argues, is an essentially American artifact, one which developed with us: a product of bold expansion, the occasional foolhardy vision, some genius technologies, and constant improvisation. Most of all, her focus is on how Americans are changing the grid right now, sometimes with gumption and big dreams and sometimes with legislation or the brandishing of guns. The Grid tells—entertainingly, perceptively--the story of what has been called “the largest machine in the world”: its fascinating history, its problematic present, and its potential role in a brighter, cleaner future.

Sociocultural Psychology-Laura Martin 1995-09-29 Presents applications of activity theory; in honour of Sylvia Scribner.

Theoretical Principles of Distance Education-Desmond Keegan 2005-08-15 According to UNESCO statistics, 10 million of the world’s 600 million students study at a distance. Theoretical Principles of Distance Education seeks to lay solid foundations for the education of these students and for the structures within which they study. As a more industrialised form of education provision, distance education is well adapted to the use of new communication technologies, and brings to education many of the strengths and dangers of post-industrialism. The central focus of the study of distance education is the placing of the student at home or at work and the justification of the abandonment in this form of education of interpersonal, face-to-face communication, previously considered to be a cultural imperative for education in both east and west. This book explores the problems that distance education poses to the theorist, bringing together an international team of distance educators to address these issues for the first time in a systematic way. The team comprises theoreticians, administrators, experts in educational technology and adult education, experts in learning from video machines, from computers and other forms of technology. Contributions from Italy, and Scandinavia contrast with viewpoints provided by scholars from the US, Canada, Australia, and the UK.