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Global Taiwan Catching Up and Leapfrogging Interconnected Worlds International Business in the New Asia-Pacific Varieties and Alternatives of Catching-up Behavioral Synthesis for Hardware Security Strategy Beyond the Hockey Stick Building High-Tech Clusters Corporate Financial Reporting and Analysis FinFET Transformation and Upgrading of Chinese Enterprises FPGAs Border Crossing in Greater China Biographical Dictionary of New Chinese Entrepreneurs and Business Leaders Chips and Change Conquering the Electron The New Fire Knowledge Management in Developing Economies Quantum Nation The New Global Ecosystem in Advanced Computing THE PROMETHEAN PURSUIT IN THE US-CHINA COMPETITION FOR GLOBAL TECHNOLOGICAL LEADERSHIP China and America's Tech War from AI to 5G Financial Interdependence, Digitalization and Technological Rivalries USITC Publication The New Argonauts Static Random Access Memory Semiconductors from the Republic of Korea and Taiwan The Silicon Island-A Blessing in Disguise?A Place where Semiconductors & Geopolitics meet A Political Explanation of Economic Growth Strategic Coupling The Silicon Dragon Perspectives on Global Development and Technology Collaborative Dynamic Capabilities for Service Innovation Advanced Packaging Equity Research for the Technology Investor Techno-economic Paradigms Coopetition Strategy Developing Holistic Strategic Management In The Advanced Ict Era CAPEX Excellence Innovation And Entrepreneurship: Choice And Challenge Chip War

Global Taiwan

2015-02-12

global taiwan examines the impact of globalization on the industry and economy of taiwan since the spectacular growth of the 1990s drawing on hundreds of interviews with firms in taiwan china the united states japan europe and other areas the book analyzes the strengths and weaknesses of taiwanese firms at a time when they face new competition from powerful global leaders and new producers in china the contributors cover topics of enormous importance for taiwan as well as the rest of the world including transformations in the international economy technological advances that enabled modularization and fragmentation of the production system contract manufacturers regionalization and links with chinese industry the book addresses such questions as can taiwanese companies be maintained and expanded with the same corporate strategies and public policies as in the past can these strategies still work for other countries if changes are required what resources can be mobilized in the public and private sectors as massive relocation of manufacturing and services moves plants and jobs to low wage countries like china and india what will remain at home in societies like taiwan

Catching Up and Leapfrogging

2016-12-01

ever since schumpeter s groundbreaking work there has been a plethora of new research seeking to extend the direction and dynamics of innovation using a rich account of detailed interviews this book offers new evidence on how latecomers have successfully caught up and leapfrogged incumbent firms catching up and leapfrogging the new latecomers in the integrated circuits industry explores how technological transitions affect latecomer catch up strategies and vice versa in a high technology industry it looks to the east asian latecomers who towards the end of the twentieth century pioneered a new pathway through organizational change by specializing in the key production stages of integrated circuits and pushing technologies further this volume assesses how latecomer resource acquisition strategies have varied alongside structural industry changes and evaluates the mechanisms through which firms started life as technology followers and rose to become technology leaders xiao shan yap and rajah rasiah present a unique story about how firm strategies evolve from the catching up phase to the leapfrogging phase captured from the accounts of managers on the ground it is the first time firm level strategies have been systematically analysed to describe twenty first century strategic management in the integrated circuits industry in particular and the high tech industry in general the evidence and analysis in this book offers insights for chief executive officers policy makers and researchers to revisit existing approaches to the theory of catching up and leapfrogging

Interconnected Worlds

2022-06-28

the global electronics industry is one of the most innovation driven and technology intensive sectors in the contemporary world economy from semiconductors to end products complex transnational production and

value generating activities have integrated diverse macro regions and national economies worldwide into the interconnected worlds of global electronics this book argues that the current era of interconnected worlds started in the early 1990s when electronics production moved from systems dominated by lead firms in the united states western europe and japan towards increasingly globalized and cross macro regional electronics manufacturing centered in east asia by the 2010s this co evolution of production network complexity transformed global electronics through which lead firms from south korea taiwan and china integrated east asia into the interconnected worlds of electronics production across the globe drawing on literature on the electronics industry new empirical material comprising custom datasets and extensive personal interviews this book examines through a network approach the co evolution of globalized electronics production centered in east asia across different national economies and sub national regions with comprehensive analysis up to 2021 yeung analyzes the geographical configurations where organizational strategies how and causal drivers why of global production networks setting a definitive benchmark into the dynamic transformations in global electronics and other globalized industries the book will serve as a crucial resource for academic and policy research offering a conceptual empirically driven grounding in the theory of these networks that has become highly influential across the social sciences

International Business in the New Asia-Pacific

2022-01-01

the asia pacific region sustaining more than four decades of rapid growth has emerged as an economic force comparable in significance to europe and north america this book examines the economic geopolitical technological demographic and cultural forces that shape the international business strategies in the asia pacific region specifically it examines the seismic shifts in global business environment since the new century and addresses emerging opportunities and threats in the asia pacific region this book offers new insights for international business in areas such as trade policy supply chains international investment technological innovation international marketing digital economy and human resources the enclosed comprehensive and diverse analyses of the international business landscape in the new asia are invaluable to scholars managers politicians and policy makers alike this book is engaging and informative it presents a collection of diverse and cutting edge topics that offer new insights into international business activities in the asia pacific region raising questions for debate and opening pathways for future research a must read book for international business scholars hussain g rammal university of technology sydney australia this book offers a comprehensive introduction to the general business environment in asia it highlights the complexities and dynamics of doing business in asia and provides insightful understandings of emerging issues in the region the chapter by chapter analyses of the region depict the rich thematic contexts in which key issues and challenges facing corporate executives as well scholars in international business i believe that this book is valuable for students of international business global business environment and regional studies hongxin zhao saint louis university usa

Varieties and Alternatives of Catching-up

2016-07-15

this book sheds new light on the advancement of various industries in developing asian countries through

an application and re examination of catch up industrialization theory with contributors presenting their own perspectives on the progression of a range of different industries in asia this volume provokes readers to reconsider their current understanding of industrialization in latecomer countries more specifically the chapters discuss taiwan s semiconductor industry korea s steel industry and malaysia s palm oil industry amongst others the authors also explore the catch down innovation strategy in china and india varieties and alternatives of catching up provides a thorough analysis of the strategies employed by numerous asian countries to radically transform their low income agricultural economies to middle income industrialized ones this book is essential reading for researchers and scholars interested in asian economic development

Behavioral Synthesis for Hardware Security

2022-02-08

this book presents state of the art research results from leading electronic design automation eda researchers on automated approaches for generating cyber secure smart hardware the authors first provide brief background on high level synthesis principles and motivate the need for secure design during behavioral synthesis then they provide readers with synthesis techniques for six automated security solutions namely hardware obfuscation hardware trojan detection ip watermarking state encoding side channel attack resistance and information flow tracking provides a single source reference to behavioral synthesis for hardware security describes automatic synthesis techniques for algorithmic obfuscation using code transformations includes behavioral synthesis techniques for intellectual property protection

Strategy Beyond the Hockey Stick

2018-01-10

beat the odds with a bold strategy from mckinsey company every once in a while a genuinely fresh approach to business strategy appears legendary business professor richard rumelt ucla mckinsey company s newest most definitive and most irreverent book on strategy which thousands of executives are already using is a must read for all c suite executives looking to create winning corporate strategies strategy beyond the hockey stick is spearheading an empirical revolution in the field of strategy based on an extensive analysis of the key factors that drove the long term performance of thousands of global companies the book offers a ground breaking formula that enables you to objectively assess your strategy s real odds of future success this book is fundamental the principles laid out here with compelling data are a great way around the social pitfalls in strategy development frans van houten ceo royal philips n v the authors have discovered that over a 10 year period just 1 in 12 companies manage to jump from the middle tier of corporate performance where 60 of companies reside making very little economic profit to the top quintile where 90 of global economic profit is made this movement does not happen by magic it depends on your company s current position the trends it faces and the big moves you make to give it the strongest chance of vaulting over the competition this is not another strategy framework rather strategy beyond the hockey stick shows through empirical analysis and the experiences of dozens of companies that have successfully made multiple big moves that to dramatically improve performance you have to overcome incrementalism and corporate inertia a different kind of book i couldn t put it down inspiring new insights on the facts of what it takes to move a company s performance combined with practical advice on how to deal with real

life dynamics in management teams jane fraser ceo citigroup latin america

Building High-Tech Clusters

2004-04-05

richards 7

Corporate Financial Reporting and Analysis

2018-11-28

corporate financial reporting analysis combines comprehensive coverage and a rigorous approach to modern financial reporting with a readable and accessible style merging traditional principles of corporate finance and accepted reporting practices with current models enable the reader to develop essential interpretation and analysis skills while the emphasis on real world practicality and methodology provides seamless coverage of both gaap and ifrs requirements for enhanced global relevance two decades of classroom testing among insead mba students has honed this text to provide the clearest most comprehensive model for financial statement interpretation and analysis a concise logically organized pedagogical framework includes problems discussion questions and real world case studies that illustrate applications and current practices and in depth examination of key topics clarifies complex concepts and builds professional intuition with insightful coverage of revenue recognition inventory accounting receivables long term assets m a income taxes and other principle topics this book provides both education and ongoing reference for mba students

FinFET

2015-03-01

finfet technology is widely expected to fundamentally alter the semiconductor market this new generation transistor manufacturing method would set off revolutionary changes in the smartphone tablet and other handheld devices market

Transformation and Upgrading of Chinese Enterprises

2018-08-29

this book discusses the experience of enterprise transformation and upgrading and the role of government in promoting this dramatic change in asian emerging economies the author specifically explores the direction influencing factors paths and modes of enterprise transformation and upgrading by conducting intensive case studies on a number of enterprises having accomplished upgrading in mainland china and taiwan and draws experience and lessons from them these theoretical and practical insights have great significance for chinese enterprises in improving their ability to respond to drastic external changes and provide useful reference for the formulation of government policies

FPGAs

2017-07-28

field programmable gate arrays fpgas are currently recognized as the most suitable platform for the implementation of complex digital systems targeting an increasing number of industrial electronics applications they cover a huge variety of application areas such as aerospace food industry art industrial automation automotive biomedicine process control military logistics power electronics chemistry sensor networks robotics ultrasound security and artificial vision this book first presents the basic architectures of the devices to familiarize the reader with the fundamentals of fpgas before identifying and discussing new resources that extend the ability of the devices to solve problems in new application domains design methodologies are discussed and application examples are included for some of these domains e g mechatronics robotics and power systems

Border Crossing in Greater China

2014-07-25

china's transformation from a poor and underdeveloped country into a global market power has profoundly altered its socioeconomic power relations with the other countries in the greater china region namely taiwan and hong kong indeed this economic shift has resulted in the massive flow of capital and people from taiwan as well as hong kong to china to seek business opportunities and new lifestyles these flows have in turn completely transformed longstanding borderlines in the region this book examines the transformation of taiwan and hong kong's socioeconomic relationships with china as their economies have become more deeply integrated into greater china across three key sections it explores the impact of increasing social interaction and the shrinking of existing borderlines to ask whether these changes will bring about a convergence of identity among the people involved production examines how investments from taiwan and hong kong to china have transformed production networks community explores the impact of cross boundary mobility and the integration of migrants into chinese communities and finally identity engages with what is one of the most important issues in contemporary taiwanese society border crossing in greater china contributes not only to theoretical debates on border crossing issues but also provides valuable insights on the practical concerns regarding social and political integration and tensions in the region as such it will be of great interest to students and scholars of taiwan studies chinese studies chinese society and chinese economics

Biographical Dictionary of New Chinese Entrepreneurs and Business Leaders

2009

the book is an outstanding compilation it is easy to use the information is clear and well presented and the volume is smart and robustly crafted the book is an important reference source for practitioners in international business entrepreneurs and asian studies bob duckett reference reviews the current compilation fills the need for a who's who in the chinese business world this is a useful reference for

scholars and students in china studies and for business practitioners recommended k t wei choice as direct foreign investment both inward and outward continues to gather momentum the need to understand the leaders of chinese corporations is increasingly important the biographical dictionary of new chinese entrepreneurs and business leaders is therefore a welcome addition to corporate and academic libraries the encyclopedia provides up to date coverage of the major players in china s new economy dorothy may chinese librarianship a long awaited reference volume professionally compiled and user friendly a must for the serious researcher leo paul dana journal of enterprising communities biographical information about business leaders and entrepreneurs in china is scattered in a variety of chinese sources such as books newspapers journal articles web pages etc and are difficult to locate especially from outside of china this biographical dictionary written in english which includes some 200 of the most important movers and shakers of the new chinese economy since 1978 is a very useful reference tool for libraries of all types as well as for anyone who is interested in learning and understanding the growing influence of china as a new economic power in the world hwa wei lee formerly of the library of congress and ohio university libraries this impressive effort by two leading scholars of chinese business and society will quickly become a reference for all students and practitioners indeed it is a ready vade mecum filling the crying gap many experts have identified in recent years this work will set the standard for its successors independent in its analytical assessments broad spectrum in its choice of entry far sighted in its selections john r mcintyre georgia institute of technology us the book is a must have for any student library executive or entrepreneur contemplating the business environment in china in an important society where clout is paramount and relationship is key the book s listing of who s who in china is essential to success an essential read for anyone thinking of doing business in china j mark munoz munoz and associates international and author of a salesman in asia for anyone interested in interacting with china whether doing business or not it would be advantageous to know thy foe and thyself as sunzi sun tzu put it and this work will definitely be conducive to your gaining an insight on contemporary china and its economic boom it can be used as a reference tool or read as a textbook highly recommended for college and public libraries shixing wen editor in chief chinese librarianship former president chinese american librarians association and councilor american library association this exhaustive resource provides comprehensive coverage of the major players in the chinese economy since the reform era which began in 1978 it includes 200 entries briefly summarizing each individual s life and career with a central focus on his or her accomplishments and the key roles played in the economic development of china the emphasis of the book is on the movers and shakers of china s new economy highlighting notable figures from both the initial economic liberalization period and the renewed growth from the early 1990s to the present time this invaluable dictionary is the result of collaborative efforts across the globe over forty scholars from the united states mainland china and taiwan united kingdom germany f

Chips and Change

2011-08-19

how the chip industry has responded to a series of crises over the past twenty five years often reinventing itself and shifting the basis for global competitive advantage for decades the semiconductor industry has been a driver of global economic growth and social change semiconductors particularly the microchips essential to most electronic devices have transformed computing communications entertainment and industry in chips and change clair brown and greg linden trace the industry over more than twenty years

through eight technical and competitive crises that forced it to adapt in order to continue its exponential rate of improved chip performance the industry's changes have in turn shifted the basis on which firms hold or gain global competitive advantage these eight interrelated crises do not have tidy beginnings and ends most in fact are still ongoing often in altered form the u s semiconductor industry's fear that it would be overtaken by japan in the 1980s for example foreshadows current concerns over the new global competitors china and india the intersecting crises of rising costs for both design and manufacturing are compounded by consumer pressure for lower prices other crises discussed in the book include the industry's steady march toward the limits of physics the fierce competition that keeps its profits modest even as development costs soar and the global search for engineering talent other high tech industries face crises of their own and the semiconductor industry has much to teach about how industries are transformed in response to such powerful forces as technological change shifting product markets and globalization chips and change also offers insights into how chip firms have developed defended and in some cases lost global competitive advantage

Conquering the Electron

2014-09-08

conquering the electron offers readers a true and engaging history of the world of electronics beginning with the discoveries of static electricity and magnetism and ending with the creation of the smartphone and the ipad this book shows the interconnection of each advance to the next on the long journey to our modern day technologies exploring the combination of genius infighting and luck that powered the creation of today's electronic age conquering the electron debunks the hero worship so often plaguing the stories of great advances want to know how at t s bell labs developed semiconductor technology and how its leading scientists almost came to blows in the process want to understand how radio and television work and why rca drove their inventors to financial ruin and early graves conquering the electron offers these stories and more presenting each revolutionary technological advance right alongside blow by blow personal battles that all too often took place

The New Fire

2024-03-05

ai is revolutionizing the world here's how democracies can come out on top artificial intelligence is revolutionizing the modern world it is ubiquitous in our homes and offices in the present and most certainly in the future today we encounter ai as our distant ancestors once encountered fire if we manage ai well it will become a force for good lighting the way to many transformative inventions if we deploy it thoughtlessly it will advance beyond our control if we wield it for destruction it will fan the flames of a new kind of war one that holds democracy in the balance as ai policy experts ben buchanan and andrew imbrie show in the new fire few choices are more urgent or more fascinating than how we harness this technology and for what purpose the new fire has three sparks data algorithms and computing power these components fuel viral disinformation campaigns new hacking tools and military weapons that once seemed like science fiction to autocrats ai offers the prospect of centralized control at home and asymmetric advantages in combat it is easy to assume that democracies bound by ethical constraints and disjointed in

their approach will be unable to keep up but such a dystopia is hardly preordained combining an incisive understanding of technology with shrewd geopolitical analysis buchanan and imbrie show how ai can work for democracy with the right approach technology need not favor tyranny

Knowledge Management in Developing Economies

2007-01-01

this important book brings together a set of original key contributions to knowledge management in developing economies it encompasses a wide range of countries throughout africa asia the middle east and latin america as well as the transition economies of the former socialist countries in eastern europe these carefully selected country case studies represent a broad range of issues in managing knowledge they consider the way in which knowledge management processes and practices are influenced by local culture and institutions as well as by interaction with the broader international community the need for an aggregated analytical approach in untangling the increasingly complex process through which knowledge processes are created transferred and deployed is also highlighted the book provides a strong nexus between theory and practice by offering solutions to problems such as minimising knowledge leakage creating knowledge sharing cultures and promoting management learning presenting the latest research on intercultural knowledge management this book will be warmly welcomed by researchers students and lecturers with an interest in international management and knowledge management its strong focus on practitioner implications will provide international managers with invaluable suggestions on how to maximise knowledge sharing in international joint ventures and subsidiary operations

Quantum Nation

2024-05-22

imagine a universe where every star in the sky and every molecule in your coffee cup forms part of an immense quantum computer this is not just a poetic metaphor it s the reality that underpins our universe as we stand on the brink of a new era in computing one that seeks to harness this quantum intricacy india embarks on an ambitious journey through its national quantum mission quantum nation delves into this transformative voyage exploring how india is positioning itself at the forefront of the quantum revolution it s a story of innovation vision and the relentless pursuit of knowledge set against the backdrop of a nation striving to redefine its future

The New Global Ecosystem in Advanced Computing

2012-11-23

computing and information and communications technology ict has dramatically changed how we work and live has had profound effects on nearly every sector of society has transformed whole industries and is a key component of u s global leadership a fundamental driver of advances in computing and ict has been the fact that the single processor performance has until recently been steadily and dramatically increasing year over years based on a combination of architectural techniques semiconductor advances and software

improvements users developers and innovators were able to depend on those increases translating that performance into numerous technological innovations and creating successive generations of ever more rich and diverse products software services and applications that had profound effects across all sectors of society however we can no longer depend on those extraordinary advances in single processor performance continuing this slowdown in the growth of single processor computing performance has its roots in fundamental physics and engineering constraints multiple technological barriers have converged to pose deep research challenges and the consequences of this shift are deep and profound for computing and for the sectors of the economy that depend on and assume implicitly or explicitly ever increasing performance from a technology standpoint these challenges have led to heterogeneous multicore chips and a shift to alternate innovation axes that include but are not limited to improving chip performance mobile devices and cloud services as these technical shifts reshape the computing industry with global consequences the united states must be prepared to exploit new opportunities and to deal with technical challenges the new global ecosystem in advanced computing implications for u s competitiveness and national security outlines the technical challenges describe the global research landscape and explore implications for competition and national security

THE PROMETHEAN PURSUIT IN THE US-CHINA COMPETITION FOR GLOBAL TECHNOLOGICAL LEADERSHIP

2024-01-18

after a century of humiliation a century of hard work in reconstructing and modernizing an extremely poor and backward country with a huge population and an ancient civilization when new china was founded in october 1949 after eradicating absolute extreme poverty in 2020 the chinese nation of 1.4 billion has advanced further on the path to common prosperity by mid 21st century china will complete its four modernizations of agriculture industry defense science technology s t by 2050 a world class military will also then protect the country s sovereignty and integrity as well as safeguard national interests together with construction of ecological civilization to host and support harmonious co existence between humanity and nature a fully restored and rejuvenated beautiful china will embrace the whole world with open arms in the spirit of international friendship and goodwill and cooperate to co develop in peace for the common good as well as a shared future for all nations at the vanguard of the fourth industrial revolution china will further drive its own dramatic transformation at the heart of convergence of emerging and disruptive technologies ignited and sustained by ai big data biotechnology etc in the new era in the latest round of the revolution in military affairs rma china has been innovating and leading in the intelligentization of military forces some observers have viewed the visionary technological move as a stratagem to capture the decisive advantage in global geopolitical competition combining three volumes on china s present and future developments china future trilogy comprises 1 china in 2030 highlighting the rise to the world s economic leadership and acceleration of military modernization 2 china towards 2035 on milestones which feature basic completion of agricultural economic and military modernizations as well as building a beautiful china in a further 15 years of hard work to quote president xi jinping from 2020 to 2035 and 3 china vision 2050 on the way to the great goal of complete and comprehensive national development modernization and rejuvenation the story of new china is indeed an extraordinary epic of miraculous national transformation in the most truly revolutionary period in history

China and America's Tech War from AI to 5G

2022-07-18

china and america s tech war from ai to 5g examines how sino u s geopolitical competition has increasingly centered on the performances of the two countries technology sectors and their ability to dominate development of critical next generation technologies it analyzes and compares the strengths of china and the u s ranging from the ability to produce and attract talent to the degree of government support and the scale and funding for technological research abrams reviews and weighs important technology areas such as green energy artificial intelligence quantum computing and 5g will likely have the means both parties have exercised to gain advantages and the consequences of leadership for the county who attains it

Financial Interdependence, Digitalization and Technological Rivalries

2023-05-18

this palgrave pivot investigates how the chinese and united states financial systems are becoming increasingly interdependent in spite of a simultaneous technological rivalry and decoupling between the two nations the book offers a comparative analysis of sino us financial systems before and after the global financial crisis of 2008 2009 demonstrating the deepening integration of china into global financial markets and its move from an indirect bank based system towards a direct market oriented system it discusses the economic and technological competition that has arisen between the us and china the two largest financial centers based on financial technology and demonstrates the differences in national interest driving processes of digitalization and fintech applications at the same time the book points to ways in which a market oriented global financial system and the rapid international growth of financial technology make future cooperation inevitable and necessary this book places sino us financial relations in a broader financial economic perspective and will be of interest to academics consultants and students working in banking and finance international financial markets comparative economics monetary theory and chinese business studies

USITC Publication

1997

like the greeks who sailed with jason in search of the golden fleece the new argonauts foreign born technically skilled entrepreneurs who travel back and forth between silicon valley and their home countries seek their fortune in distant lands by launching companies far from established centers of skill and technology their story illuminates profound transformations in the global economy economic geographer annalee saxenian has followed this transformation exploring one of its great paradoxes how the brain drain has become brain circulation a powerful economic force for development of formerly peripheral regions the new argonauts armed with silicon valley experience and relationships and the ability to operate in two countries simultaneously quickly identify market opportunities locate foreign partners and manage cross border business operations the new argonauts extends saxenian s pioneering research into the dynamics of competition in silicon valley the book brings a fresh perspective to the way that technology entrepreneurs

build regional advantage in order to compete in global markets scholars policymakers and business leaders will benefit from saxenian's firsthand research into the investors and entrepreneurs who return home to start new companies while remaining tied to powerful economic and professional communities in the united states for americans accustomed to unchallenged economic domination the fast growing capabilities of china and india may seem threatening but as saxenian convincingly displays in this pathbreaking book the argonauts have made america richer not poorer

The New Argonauts

2006

never count on a handful of aces up your sleeve a game changer may just turn your longstanding advantage into a future liability semiconductors and the supply chains are taiwan's most significant strategic assets to engage with the international community in retrospect taiwan's semiconductor industry led by industry leaders like morris chang and ming kai tsai had achieved a global leading position corporate strategies employed by taiwan's representative rivals as intel u.s. and samsung korea all feed into their distinct future development semiconductors are ubiquitous in an era of internet of things ironically though is taiwan's semiconductor industry coming as the most coveted possession or taiwan's sacred mountain the rapid changes of global status have upended global geopolitics which can far outweigh the impact on enterprises in terms of technological innovation and business reform bearing the brunt amid the clash of interests between the u.s. and china taiwan again is sensing the strong gunpowder smell in the face of japan korea competition coupled with asean and south asian emerging players breathing down the neck taiwan needs to mull it over and address these austere yet meaningful challenges to maintain its cutting edge in the semiconductor industry how would taiwan create a back to back miracle against the backdrop of risks posed by geopolitics

Static Random Access Memory Semiconductors from the Republic of Korea and Taiwan

1997

taiwan is a classic case of export led industrialization but unlike south korea and japan where large firms have been the major exporters before the late 1980s taiwan's successful exporters were overwhelmingly small and medium sized enterprises smes the smes became the engine of the entire economy yet for many years the state virtually ignored the smes and their role as exporters what factors account for the success of the smes and their benign neglect by the state the key was a strict division of labor state and large private enterprises jointly monopolized the domestic market this gave the smes a free run in export markets how did this industrial structure come into being the author argues that it was an unintended consequence of the state's policy toward the private sector and its political strategies for managing societal forces indeed taiwan's unique industrial structure was shaped by both the witting and the unwitting interactions of the state and the private sector moreover as the author shows this industrial policy was a product of the internal politics of the economic bureaucracy and the formulation and implementation of economic policy hinged on mechanisms for solving differences within the state

The Silicon Island-A Blessing in Disguise?A Place where Semiconductors & Geopolitics meet

2023-04-01

in strategic coupling henry wai chung yeung examines economic development and state firm relations in east asia focusing in particular on south korea taiwan and singapore as a result of the massive changes of the last twenty five years new explanations must be found for the economic success and industrial transformation in the region state assisted startups and incubator firms in east asia have become major players in the manufacture of products with a global reach taiwan s hon hai precision has assembled more than 500 million iphones for instance and south korea s samsung provides the iphone s semiconductor chips and retina displays drawing on extensive interviews with top executives and senior government officials yeung argues that since the late 1980s many east asian firms have outgrown their home states and are no longer dependent on state support as a result the developmental state has lost much of its capacity to steer and direct industrialization we cannot read the performance of national firms as a direct outcome of state action yeung calls for a thorough renovation of the still dominant view that states are the primary engine of industrial transformation he stresses action by national firms and traces various global production networks to incorporate both firm specific activities and the international political economy he identifies two sets of dynamics in these national global articulations known as strategic coupling coevolution in the confluence of state firm and global production networks and the various strategies pursued by east asian firms to attain competitive positions in the global marketplace

A Political Explanation of Economic Growth

2020-03-17

the silicon dragon is a systematic study of the growth of high tech giants in the greater china region depicting the success story of the microelectronics industry in taiwan literature and studies on taiwan s success are surprisingly limited and this book aims to fill this gap addressing questions such as how has taiwan achieved such an outstanding performance in the information industry how did taiwan obtain and maintain its competitive advantage what was the secret of success what role did the government and manufacturers play during the development process what insights can newcomers gain from these achievements the book examines the government policies that acted as catalysts to the growth of high tech industries in taiwan along with the roles of high tech incubators and government administered science parks the authors provide case studies of high profile companies including acer philips semiconductors and macronix international and interviews with key decision makers to highlight the corporate strategies adopted in response to government policies and global commercial demand finally insightful narratives on the birth and growth of a government fostered strategic industry are provided as is a synopsis of the asian contribution to the evolution of the global microelectronics development this book will strongly appeal to academics researchers and students with an interest in engineering technology and business management business managers and government officials will also find much to interest them in this book

Strategic Coupling

2016-05-24

exploring the theoretical concept of collaborative dynamic capabilities this book illustrates how service innovation can be achieved in an era of technological convergence focusing on e healthcare systems within hospitals and private businesses the author provides detailed case studies and answers topical questions about generating service innovation across different industries making a new and thought provoking contribution to research on innovation and technology management this useful book engages with theory and provides applicable solutions for practitioners to implement in the future

The Silicon Dragon

2006-01-01

advanced packaging serves the semiconductor packaging assembly and test industry strategically focused on emerging and leading edge methods for manufacturing and use of advanced packages

Perspectives on Global Development and Technology

2002

this book describes an equity research approach which combines principles of value investing with domain specific expertise in the technology industry the book also provides an overview of the financial services industry and the different types of conflicts of interest that drive market participants toward objectives that may not be aligned with those of the individual investor the book describes an equity research process that i have followed throughout my career as a financial analyst and shows that equity research is difficult not just for the technical skills involved but also due to behavioral issues that one has to deal with quite frequently when it comes to investing equity research takes a lot of work much more than an individual investor is likely to be able to commit given that her main profession is probably something other than investing a central message of the book is for the individual investor to find an independent investment manager who she can trust to pursue an investment strategy that is aligned with her goals

Collaborative Dynamic Capabilities for Service Innovation

2018-07-02

techno economic paradigms presents a series of essays discussing one of the most interesting and talked about socio economic theories of our times techno economic paradigm shifts

Advanced Packaging

2007-10

this innovative book portrays the state of the art of cooperation strategy regarded as a compelling mindset to

exploit entirely the potential of actors interdependencies firms governments suppliers customers scientists and partners in today s global scenarios it provides the rudiments for navigating an exploration journey into a virtually new and emergent management subfield this volume presents three key distinctive features it is the first attempt that delves systematically and rigorously into coopetition strategy and cooperative behaviour it clearly elucidates the contribution of coopetition to the advancement of strategic management and managerial practice it is the outcome of the collective brains of several scholars with diverse geographical roots and backgrounds who cultivate original research on co opetition strategy from a variety of perspectives economic managerial political and multiple methods theory building game theoretical experimental and inductive case based inquiries looking into this volume the reader will realize that while the topic is at the beginning of its lifecycle coopetition strategy has touched an important crossroads which solicits a more comprehensive and systematic assessment if mindfully formulated and implemented this hybrid strategic option is able to increase returns and generate value for shareholders entrepreneurs managers and competitors

Equity Research for the Technology Investor

2016-03-22

from the lens of holistic systems theory this book discusses strategic management adapted to evolving convergence in an era of advanced ict from the viewpoint of the major management elements of strategy organizations technologies operations and leadership to discuss corporate change in response to such advanced technology in a theoretical and empirical manner it is necessary not only to analyze and consider individual management elements such as strategy organizations technologies operations and leadership in a piece meal manner but also to determine the research issues from a framework based on a holistic management perspective through systems theory including interaction between and among the respective individual management elements from micro to macro elements applying both innovation theory and capabilities theory this book presents a new framework and knowledge for holistic strategic management from a systems theory lens that focuses on the issue of how major corporations can develop capabilities to achieve strategic innovation in response to the impacts of advanced ict on corporate management

Techno-economic Paradigms

2009

much of current management literature focuses on a limited set of classical value levers such as cost reduction sales optimization or mergers acquisitions thus neglecting another core value lever capital investments that capital investments receive such limited attention is all the more surprising when one considers how vitally important they are to the economy as a whole as well as individual businesses there is significant value creation potential in optimizing capital investments investments not only determine the asset structure of a venture they also enable the introduction of new products structural cost reductions the book focuses on core questions to be answered in the critical design and realization phase of new investments right positioning does the competitive situation allow the investment to be successful right technology how to optimize timing and risks of technology innovations right timing how to cope with economic cycles right size how to identify the optimum size of an asset right location how to find the best

location for an asset right design how to make investments lean and flexible right financing how to structure the investment financing the book features an introductory section that provides an overview of investments across the globe across industries and across time provides practical advice on how to allocate capital to several projects within a company s investment portfolio optimising fixed asset investment is illustrated with real world examples from a range of industries this book is essential reading for managers faced with challenges of making individual or portfolio capital investment decisions and who are responsible for managing these capital assets over their entire asset lifecycle the ideas put forward within the book will help to sharpen the focus of management on the impact capital investments have on the well being and growth of their companies optimizing fixed asset investments is a strategic manual for everyone involved or interested in large fixed capital investments

Coopetition Strategy

2009-09-10

winner of the 2022 financial times business book of the year award selected as one of barack obama s favourite books of 2023 pulse quickening a nonfiction thriller equal parts the china syndrome and mission impossible new york times an epic account of the decades long battle to control the world s most critical resource microchip technology power in the modern world military economic geopolitical is built on a foundation of computer chips america has maintained its lead as a superpower because it has dominated advances in computer chips and all the technology that chips have enabled virtually everything runs on chips cars phones the stock market even the electric grid now that edge is in danger of slipping undermined by the naïve assumption that globalising the chip industry and letting players in taiwan korea and europe take over manufacturing serves america s interests currently as chip war reveals china which spends more on chips than any other product is pouring billions into a chip building manhattan project to catch up to the us in chip war economic historian chris miller recounts the fascinating sequence of events that led to the united states perfecting chip design and how faster chips helped defeat the soviet union by rendering the russians arsenal of precision guided weapons obsolete the battle to control this industry will shape our future china spends more money importing chips than buying oil and they are china s greatest external vulnerability as they are fundamentally reliant on foreign chips but with 37 per cent of the global supply of chips being made in taiwan within easy range of chinese missiles the west s fear is that a solution may be close at hand a riveting history features vivid accounts and colourful characters financial times fascinating a historian by training miller walks the reader through decades of semiconductor history a subject that comes to life thanks to his use of colorful anecdotes forbes indispensable niall ferguson

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