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5.2 Technology Leadership 5.2.1 R&D Organization and Investment TSMC expanded Research and Development in 2010 to further enhance one of its three strategic pillars: Technology Leadership. In 2010 the total R&D budget was 7% of total revenue. This level of R&D investment is equal to or more than that of many leading edge technology companies.

~~5.2 Technology Leadership - TSMC~~

5.2 Technology Leadership 5.2.1 R&D Organization and Investment TSMC expanded its Research and Development in 2009 to further enhance one of its three strategic pillars: Technology Leadership. In 2009 the total R&D budget increased to 8% of total revenue. This level of R&D investment is on par with, if not more than, many leading edge

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TSMC ANNUAL REPORT 2008 OPERATIONAL HIGHLIGHTS 5.2 Technology Leadership 5.2.1 R&D Organization and Investment In 2008, TSMC increased its research and development investments and strengthened its R&D organization both in advanced and mainstream technologies. Our goal is to provide best-in-class

~~5.2 Technology Leadership - TSMC~~

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A strong portfolio of intellectual property rights strengthens TSMC ' s technology leadership and protects our advanced and leading edge technologies. In 2013, TSMC received a record breaking 940 U.S. patents, as well as 500+ issued patents in Taiwan and the PRC, and other patents issued in various other countries.

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A strong portfolio of intellectual property rights strengthens TSMC ' s technology leadership and protects our advanced and leading edge technologies. In 2014, TSMC received a record breaking 1460 U.S. patents, as well as 450+ issued patents in Taiwan and the PRC, and other patents issued in various other countries.

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Technology Leadership. R&D Organization and Investment. In 2015, TSMC continued to invest in research and development, with total R&D expenditure amounting to 8% of revenue, a level that equals or exceeds the R&D investment of many other high-tech leaders.

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The R&D team has grown to a team of 6,534 people, a 5% increase from the previous year. A strong portfolio of intellectual property rights strengthens TSMC's technology leadership. As of 2019, TSMC's patent portfolio has reached over 39,000 patents worldwide to ensure the Company's technology leadership and maximum profit.

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The semiconductor industry is a vital industry for military establishments worldwide, and the control of, or loss of control of, this key industry has enormous strategic implications. This book focuses on the globalization of the strategic semiconductor industry and the security ramifications of this process. It examines in particular the migration of the Taiwanese chip industry to China as part of the globalization of production processes, and the extent to which such a globalization process poses security challenges to the United States, China and Taiwan. Transcending disciplinary boundaries between international political economy, security studies, and the history of science and technology, this multidisciplinary work provides an in-depth understanding of the globalization-security nexus, and disentangles the key policy issues connected to a potential explosive flashpoint in world politics today.

This book reports on the findings from a research study of vocational and higher education graduates ' employability challenges. The nature and extent of these challenges, their underlying causes, and effective strategies to address the problems in this area are all analysed from a multiple-stakeholder paradigm. The primary focus of the book is on governments; secondary, vocational, and higher education systems; and industry employers - rather than graduates themselves - in order to highlight the policy and strategy implications for governments, industry and educational systems. Readers will acquire comprehensive information on the nature and extent of graduate employability in terms of country-specific challenges, together with a deeper understanding of their complex causes, and the inter-relatedness between governments, educational systems, industry sectors, and potential employers. They will also be provided with a broad range of stakeholder strategies designed to effectively address these challenges within integrated national and regional approaches.

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.

A comprehensive reference including practical, hands-on exercises and data of experimental studies, written by leading researchers in the field · An introductory/intermediate level treatment including practical, hands-on exercises and data of experimental studies, written by leading researchers in the field · The authors lead a LED packaging R&D center with an industrial grade prototyping line and state-of-the-art facilities for materials/optical/electrical/thermal characterization. A substantial amount of technical contents in this book is based on the hands-on experience and experimental practices of the authors · The manufacture of LED-based luminaries for lighting is a huge area and there is a need for a comprehensive book instructing engineers and designers in the lighting industry · Includes packaging LED components such as interconnection, phosphor deposition, encapsulation, thermal management and reliability, making this an excellent reference and background reading for engineers and researchers

This is the only global roadmap that identifies the technical and manufacturing challenges associated with the development and expansion of commercial markets for ceramics and glass. Featuring presentations by industry leaders at the 1st International Congress on Ceramics (ICC) held in 2006, it suggests positive, proactive ways to address these challenges. The ICC Global Roadmap contains the following content: 1) Summary papers prepared by the invited speakers before the meeting 2) A detailed account of the presentation of each invited speaker written by an editor who attends the presentation 3) A summary account and future recommendations for the industry on each topic covered written by the board and the president of this meeting, Dr. Stephen Freiman (National Institutes of Standards and Technology) 4) The CDRom accompanying the book contains all of the above as well as pdfs of the presentations for non-invited speakers, including posters presented and discussed.

Existing accounts of East Asia ' s meteoric growth and structural change has either been explained as one dictated essentially by markets with strong macroeconomic fundamentals, or a consequence of proactive governments. This book departs from such a dichotomy by examining inductively the drivers of the experiences. Given the evolutionary treatment of each economic good and service as different, this book examines technological catch up with a strong focus on the industries contributing significantly to the economic growth of the countries selected in Asia. The evidence produced supports the evolutionary logic of macro, meso and micro interactions between several institutions, depending on the actors involved, structural location and typology of taxonomies and trajectories. The book carefully picks out experiences from the populous economies of China, India and Indonesia, the high income economies of Korea and Taiwan, the middle income economies of Malaysia and Thailand, and the transitional least developed country of Myanmar. Chapters 1-7 of this book were originally published as a special issue of Journal of the Asia Pacific Economy.

The chips in present-day cell phones already contain billions of sub-100-nanometer transistors. By 2020, however, we will see systems-on-chips with trillions of 10-nanometer transistors. But this will be the end of the miniaturization, because yet smaller transistors, containing just a few control atoms, are subject to statistical fluctuations and thus no longer useful. We also need to worry about a potential energy crisis, because in less than five years from now, with current chip technology, the internet alone would consume the total global electrical power! This book presents a new, sustainable roadmap towards ultra-low-energy (femto-Joule), high-performance electronics. The focus is on the energy-efficiency of the various chip functions: sensing, processing, and communication, in a top-down spirit involving new architectures such as silicon brains, ultra-low-voltage circuits, energy harvesting, and 3D silicon technologies. Recognized world leaders from industry and from the research community share their views of this nanoelectronics future. They discuss, among other things, ubiquitous communication based on mobile companions, health and care supported by autonomous implants and by personal carebots, safe and efficient mobility assisted by co-pilots equipped with intelligent micro-electromechanical systems, and internet-based education for a billion people from kindergarden to retirement. This book should help and interest all those who will have to make decisions associated with future electronics: students, graduates, educators, and researchers, as well as managers, investors, and policy makers. Introduction: Towards Sustainable 2020 Nanoelectronics.- From Microelectronics to Nanoelectronics.- The Future of Eight Chip Technologies.- Analog – Digital Interfaces.- Interconnects and Transceivers.- Requirements and Markets for Nanoelectronics.- ITRS: The International Technology Roadmap for Semiconductors.- Nanolithography.- Power-Efficient Design Challenges.- Superprocessors and Supercomputers.- Towards Terabit Memories.- 3D Integration for Wireless Multimedia.- The Next-Generation Mobile User-Experience.- MEMS (Micro-Electro-Mechanical Systems) for Automotive and Consumer.- Vision Sensors and Cameras.- Digital Neural Networks for New Media.- Retinal Implants for Blind Patients.- Silicon Brains.- Energy Harvesting and Chip Autonomy.- The Energy Crisis.- The Extreme-Technology Industry.- Education and Research for the Age of Nanoelectronics.- 2020 World with Chips.

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.