

US VS CHINA TECHNOLOGY RACE

US VS CHINA TECHNOLOGY RACE HAS BECOME ONE OF THE MOST DEFINING CONFLICTS OF THE 21ST CENTURY, SHAPING GLOBAL ECONOMIC, MILITARY, AND GEOPOLITICAL LANDSCAPES. THIS TECHNOLOGICAL RIVALRY ENCOMPASSES ADVANCEMENTS IN ARTIFICIAL INTELLIGENCE, SEMICONDUCTOR MANUFACTURING, 5G COMMUNICATIONS, QUANTUM COMPUTING, AND MORE. BOTH THE UNITED STATES AND CHINA ARE INVESTING HEAVILY IN RESEARCH AND DEVELOPMENT, AIMING TO SECURE TECHNOLOGICAL SUPREMACY THAT WILL INFLUENCE FUTURE INNOVATION AND STRATEGIC POWER. UNDERSTANDING THE DYNAMICS OF THIS COMPETITION REQUIRES EXAMINING THE STRENGTHS, POLICIES, AND CHALLENGES EACH NATION FACES. THIS ARTICLE EXPLORES THE KEY ASPECTS OF THE US VS CHINA TECHNOLOGY RACE, INCLUDING HISTORICAL CONTEXT, STRATEGIC SECTORS, GOVERNMENT ROLES, AND INTERNATIONAL IMPLICATIONS. THE FOLLOWING SECTIONS PROVIDE A COMPREHENSIVE OVERVIEW OF THIS ONGOING TECHNOLOGICAL CONTEST.

- HISTORICAL CONTEXT OF THE TECHNOLOGY RACE
- KEY TECHNOLOGICAL SECTORS IN COMPETITION
- GOVERNMENT POLICIES AND STRATEGIC INITIATIVES
- GLOBAL IMPACT AND GEOPOLITICAL IMPLICATIONS
- CHALLENGES AND FUTURE OUTLOOK

HISTORICAL CONTEXT OF THE TECHNOLOGY RACE

THE US VS CHINA TECHNOLOGY RACE DID NOT EMERGE OVERNIGHT; IT IS ROOTED IN DECADES OF DEVELOPMENT AND STRATEGIC PLANNING. HISTORICALLY, THE UNITED STATES LED GLOBAL TECHNOLOGY INNOVATION THROUGHOUT THE 20TH CENTURY, DRIVEN BY ITS ROBUST RESEARCH INSTITUTIONS, PRIVATE SECTOR LEADERSHIP, AND MILITARY INVESTMENTS. CHINA, ON THE OTHER HAND, BEGAN ITS MODERNIZATION AND TECHNOLOGY PUSH MORE AGGRESSIVELY IN THE EARLY 2000S, LEVERAGING STATE-LED INDUSTRIAL POLICIES AND MASSIVE INVESTMENTS IN EDUCATION AND INFRASTRUCTURE.

CHINA'S RAPID ECONOMIC GROWTH ENABLED IT TO CLOSE THE GAP IN VARIOUS TECHNOLOGY SECTORS, SHIFTING FROM A MANUFACTURING HUB TO A SIGNIFICANT INNOVATOR. THIS SHIFT POSED NEW CHALLENGES TO THE U.S., WHICH NOW FACES A COMPETITOR WITH VAST RESOURCES AND AN INTEGRATED APPROACH TO TECHNOLOGICAL ADVANCEMENT. THE EVOLUTION OF THIS RIVALRY HAS BEEN MARKED BY MILESTONES SUCH AS CHINA'S "MADE IN CHINA 2025" INITIATIVE AND THE U.S. RESPONSE THROUGH INCREASED FUNDING FOR EMERGING TECHNOLOGIES AND EXPORT CONTROLS.

KEY TECHNOLOGICAL SECTORS IN COMPETITION

THE US VS CHINA TECHNOLOGY RACE SPANS MULTIPLE CRITICAL INDUSTRIES AND DOMAINS, EACH REPRESENTING A BATTLEGROUND FOR TECHNOLOGICAL LEADERSHIP. THESE SECTORS ARE VITAL NOT ONLY FOR ECONOMIC GROWTH BUT ALSO FOR NATIONAL SECURITY AND GLOBAL INFLUENCE.

SEMICONDUCTOR MANUFACTURING

SEMICONDUCTORS ARE THE FOUNDATION OF MODERN ELECTRONICS, AND DOMINANCE IN CHIP PRODUCTION IS CRUCIAL. THE U.S. CURRENTLY LEADS IN CHIP DESIGN AND ADVANCED MANUFACTURING EQUIPMENT, WHILE CHINA FOCUSES ON EXPANDING ITS DOMESTIC PRODUCTION CAPACITY TO REDUCE RELIANCE ON FOREIGN SUPPLIERS. CHINA'S AMBITIONS INCLUDE DEVELOPING INDIGENOUS SEMICONDUCTOR TECHNOLOGIES AND SECURING SUPPLY CHAINS.

ARTIFICIAL INTELLIGENCE (AI)

AI IS A TRANSFORMATIVE TECHNOLOGY WITH APPLICATIONS ACROSS INDUSTRIES. BOTH COUNTRIES INVEST HEAVILY IN AI RESEARCH AND DEPLOYMENT, WITH CHINA EMPHASIZING GOVERNMENT-DRIVEN AI STRATEGIES AND LARGE-SCALE DATA UTILIZATION. THE U.S. BENEFITS FROM A STRONG PRIVATE SECTOR AND ACADEMIC RESEARCH INSTITUTIONS DRIVING INNOVATION IN AI ALGORITHMS, MACHINE LEARNING, AND RELATED FIELDS.

5G AND TELECOMMUNICATIONS

5G TECHNOLOGY IS A CRITICAL AREA OF COMPETITION DUE TO ITS IMPLICATIONS FOR COMMUNICATION INFRASTRUCTURE AND FUTURE INTERNET APPLICATIONS. CHINA'S HUAWEI HAS BEEN A DOMINANT PLAYER IN GLOBAL 5G DEPLOYMENT, ALTHOUGH IT FACES RESTRICTIONS IN THE U.S. AND ALLIED COUNTRIES. THE U.S. FOCUSES ON DEVELOPING ALTERNATIVE 5G TECHNOLOGIES AND SECURING SUPPLY CHAINS TO MAINTAIN AN EDGE IN TELECOMMUNICATIONS.

QUANTUM COMPUTING

QUANTUM COMPUTING PROMISES REVOLUTIONARY COMPUTATIONAL POWER. BOTH NATIONS HAVE LAUNCHED AMBITIOUS PROGRAMS TO DEVELOP PRACTICAL QUANTUM COMPUTERS, QUANTUM COMMUNICATION NETWORKS, AND CRYPTOGRAPHIC SOLUTIONS. PROGRESS IN THIS SECTOR COULD REDEFINE CYBERSECURITY AND COMPUTATIONAL CAPABILITIES FOR DECADES.

- SEMICONDUCTORS: CHIP DESIGN, MANUFACTURING, SUPPLY CHAIN INDEPENDENCE
- ARTIFICIAL INTELLIGENCE: RESEARCH, DATA, APPLICATION DEPLOYMENT
- 5G TELECOMMUNICATIONS: INFRASTRUCTURE, GLOBAL MARKET SHARE
- QUANTUM COMPUTING: RESEARCH INITIATIVES, PRACTICAL APPLICATIONS

GOVERNMENT POLICIES AND STRATEGIC INITIATIVES

THE US VS CHINA TECHNOLOGY RACE IS HEAVILY INFLUENCED BY GOVERNMENT INTERVENTIONS, POLICIES, AND STRATEGIC PLANNING. BOTH COUNTRIES HAVE IMPLEMENTED COMPREHENSIVE FRAMEWORKS TO ACCELERATE TECHNOLOGICAL DEVELOPMENT AND PROTECT THEIR COMPETITIVE ADVANTAGES.

CHINA'S INDUSTRIAL POLICIES

CHINA'S GOVERNMENT HAS ENACTED POLICIES SUCH AS "MADE IN CHINA 2025" AND THE "NATIONAL MEDIUM- AND LONG-TERM PROGRAM FOR SCIENCE AND TECHNOLOGY DEVELOPMENT" TO PROMOTE HIGH-TECH INDUSTRIES. THESE POLICIES INCLUDE SIGNIFICANT FUNDING FOR RESEARCH, SUBSIDIES FOR DOMESTIC FIRMS, INTELLECTUAL PROPERTY ACQUISITION STRATEGIES, AND WORKFORCE DEVELOPMENT PROGRAMS.

U.S. STRATEGIC RESPONSES

THE UNITED STATES HAS RESPONDED WITH INCREASED INVESTMENT IN BASIC AND APPLIED RESEARCH, EXPORT CONTROLS TARGETING CHINESE TECHNOLOGY COMPANIES, AND EFFORTS TO STRENGTHEN DOMESTIC SEMICONDUCTOR PRODUCTION THROUGH INITIATIVES LIKE THE CHIPS ACT. ADDITIONALLY, THE U.S. GOVERNMENT COLLABORATES WITH PRIVATE SECTOR LEADERS AND ALLIES TO MAINTAIN TECHNOLOGICAL ADVANTAGES AND SECURE CRITICAL SUPPLY CHAINS.

REGULATORY AND SECURITY MEASURES

BOTH NATIONS ENFORCE REGULATIONS AIMED AT SAFEGUARDING TECHNOLOGICAL ASSETS AND NATIONAL SECURITY. THE U.S. HAS IMPOSED RESTRICTIONS ON CHINESE TECH COMPANIES CITING SECURITY CONCERNS, WHILE CHINA MAINTAINS STRICT CONTROLS ON DATA AND TECHNOLOGY EXPORTS. THESE MEASURES REFLECT THE INTERTWINING OF TECHNOLOGY AND NATIONAL SECURITY IN THIS RIVALRY.

GLOBAL IMPACT AND GEOPOLITICAL IMPLICATIONS

THE US VS CHINA TECHNOLOGY RACE EXTENDS BEYOND BILATERAL COMPETITION, INFLUENCING GLOBAL MARKETS, ALLIANCES, AND INTERNATIONAL STANDARDS. THE OUTCOME OF THIS RACE WILL SHAPE THE TECHNOLOGICAL LANDSCAPE WORLDWIDE AND DETERMINE GEOPOLITICAL POWER BALANCES.

SUPPLY CHAIN REALIGNMENTS

GLOBAL SUPPLY CHAINS ARE BEING RESTRUCTURED AS COUNTRIES ADAPT TO THE UNCERTAINTIES CAUSED BY THIS TECHNOLOGY COMPETITION. NATIONS ARE DIVERSIFYING SOURCES OF CRITICAL COMPONENTS, INVESTING IN DOMESTIC CAPABILITIES, AND FORMING STRATEGIC PARTNERSHIPS TO MITIGATE RISKS ASSOCIATED WITH DEPENDENCE ON EITHER THE U.S. OR CHINA.

ALLIANCES AND TECHNOLOGY PARTNERSHIPS

TECHNOLOGICAL ALLIANCES ARE BECOMING A KEY ASPECT OF INTERNATIONAL RELATIONS. THE U.S. STRENGTHENS TIES WITH ALLIES SUCH AS JAPAN, SOUTH KOREA, AND THE EUROPEAN UNION TO COORDINATE TECHNOLOGY STANDARDS, RESEARCH COLLABORATIONS, AND EXPORT CONTROLS. CHINA PURSUES PARTNERSHIPS THROUGH INITIATIVES LIKE THE BELT AND ROAD TO EXPAND ITS TECHNOLOGICAL INFLUENCE.

STANDARDS AND NORMS SETTING

CONTROL OVER THE DEVELOPMENT OF INTERNATIONAL TECHNOLOGY STANDARDS IS A CRITICAL FRONT IN THE US VS CHINA TECHNOLOGY RACE. SETTING NORMS IN AREAS LIKE 5G, AI ETHICS, AND CYBERSECURITY WILL INFLUENCE FUTURE GLOBAL TECHNOLOGY ADOPTION AND GOVERNANCE FRAMEWORKS.

CHALLENGES AND FUTURE OUTLOOK

DESPITE SIGNIFICANT INVESTMENTS AND EFFORTS, BOTH THE U.S. AND CHINA FACE SUBSTANTIAL CHALLENGES IN SUSTAINING TECHNOLOGICAL LEADERSHIP. THE US VS CHINA TECHNOLOGY RACE IS MARKED BY RAPID INNOVATION CYCLES, COMPLEX SUPPLY CHAINS, AND EVOLVING GEOPOLITICAL RISKS.

TECHNOLOGICAL AND ECONOMIC BARRIERS

SEMICONDUCTOR MANUFACTURING REQUIRES CUTTING-EDGE FABRICATION FACILITIES THAT ARE EXPENSIVE AND COMPLEX TO BUILD. TALENT SHORTAGES IN AI AND QUANTUM COMPUTING LIMIT RAPID PROGRESS. ECONOMIC SANCTIONS AND TRADE RESTRICTIONS ALSO COMPLICATE TECHNOLOGY TRANSFER AND COLLABORATION.

INNOVATION ECOSYSTEM DYNAMICS

THE U.S. BENEFITS FROM A VIBRANT INNOVATION ECOSYSTEM DRIVEN BY STARTUPS, UNIVERSITIES, AND VENTURE CAPITAL. CHINA'S CENTRALIZED PLANNING PROVIDES SCALE AND COORDINATION BUT MAY FACE CHALLENGES IN FOSTERING BREAKTHROUGH

INNOVATIONS. BALANCING THESE DYNAMICS WILL BE ESSENTIAL FOR BOTH COUNTRIES.

POTENTIAL FOR COOPERATION

ALTHOUGH COMPETITION DOMINATES, AREAS FOR COOPERATION EXIST, ESPECIALLY IN GLOBAL CHALLENGES SUCH AS CLIMATE CHANGE, HEALTH TECHNOLOGIES, AND SPACE EXPLORATION. COLLABORATIVE EFFORTS MAY COMPLEMENT COMPETITIVE DRIVES AND CONTRIBUTE TO GLOBAL TECHNOLOGICAL PROGRESS.

1. INVESTING IN ADVANCED MANUFACTURING CAPABILITIES
2. DEVELOPING TALENT PIPELINES IN STEM FIELDS
3. ENHANCING INTERNATIONAL TECHNOLOGY PARTNERSHIPS
4. BALANCING COMPETITION WITH SELECTIVE COOPERATION

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE MAIN AREAS OF COMPETITION BETWEEN THE US AND CHINA IN THE TECHNOLOGY RACE?

THE MAIN AREAS OF COMPETITION INCLUDE ARTIFICIAL INTELLIGENCE, 5G TELECOMMUNICATIONS, SEMICONDUCTOR MANUFACTURING, QUANTUM COMPUTING, AND ELECTRIC VEHICLES.

HOW HAS THE US GOVERNMENT RESPONDED TO CHINA'S ADVANCEMENTS IN TECHNOLOGY?

THE US GOVERNMENT HAS IMPLEMENTED EXPORT CONTROLS, INCREASED INVESTMENTS IN DOMESTIC SEMICONDUCTOR PRODUCTION, STRENGTHENED INTELLECTUAL PROPERTY PROTECTIONS, AND FORMED ALLIANCES WITH OTHER COUNTRIES TO LIMIT CHINA'S ACCESS TO CRITICAL TECHNOLOGIES.

WHY IS SEMICONDUCTOR TECHNOLOGY CRUCIAL IN THE US-CHINA TECH RACE?

SEMICONDUCTORS ARE ESSENTIAL COMPONENTS IN VIRTUALLY ALL MODERN ELECTRONICS, FROM SMARTPHONES TO MILITARY SYSTEMS. CONTROL OVER SEMICONDUCTOR DESIGN AND MANUFACTURING DETERMINES TECHNOLOGICAL SUPERIORITY AND ECONOMIC POWER.

WHAT ROLE DOES 5G TECHNOLOGY PLAY IN THE RIVALRY BETWEEN THE US AND CHINA?

5G TECHNOLOGY IS VITAL FOR FASTER COMMUNICATION, IoT EXPANSION, AND MILITARY APPLICATIONS. CHINA, LED BY COMPANIES LIKE HUAWEI, HAS AGGRESSIVELY PROMOTED 5G INFRASTRUCTURE, WHILE THE US HAS EXPRESSED SECURITY CONCERNS AND SOUGHT TO LIMIT HUAWEI'S GLOBAL INFLUENCE.

HOW ARE AI DEVELOPMENTS INFLUENCING THE US-CHINA TECHNOLOGY COMPETITION?

BOTH COUNTRIES ARE INVESTING HEAVILY IN AI RESEARCH FOR APPLICATIONS IN DEFENSE, SURVEILLANCE, HEALTHCARE, AND AUTONOMOUS SYSTEMS. LEADERSHIP IN AI IS SEEN AS A CRITICAL FACTOR FOR ECONOMIC GROWTH AND NATIONAL SECURITY.

WHAT IMPACT DO TRADE RESTRICTIONS HAVE ON THE TECHNOLOGY RACE BETWEEN THE US AND CHINA?

TRADE RESTRICTIONS, SUCH AS TARIFFS AND EXPORT BANS, AIM TO SLOW CHINA'S TECHNOLOGICAL PROGRESS BY LIMITING ACCESS TO CRITICAL COMPONENTS AND SOFTWARE. HOWEVER, THEY ALSO DISRUPT GLOBAL SUPPLY CHAINS AND ENCOURAGE CHINA TO DEVELOP INDIGENOUS ALTERNATIVES.

HOW ARE INTERNATIONAL ALLIANCES SHAPING THE TECHNOLOGY COMPETITION BETWEEN THE US AND CHINA?

THE US HAS BEEN STRENGTHENING PARTNERSHIPS WITH ALLIES LIKE JAPAN, SOUTH KOREA, AND THE EU TO CREATE A UNITED FRONT IN SETTING TECHNOLOGY STANDARDS, SHARING R&D, AND RESTRICTING CHINA'S TECHNOLOGICAL INFLUENCE GLOBALLY.

ADDITIONAL RESOURCES

1. *AI SUPERPOWERS: CHINA, SILICON VALLEY, AND THE NEW WORLD ORDER*

THIS BOOK BY KAI-FU LEE EXPLORES THE RAPIDLY EVOLVING LANDSCAPE OF ARTIFICIAL INTELLIGENCE WITH A FOCUS ON THE COMPETITION BETWEEN THE U.S. AND CHINA. LEE, A RENOWNED AI EXPERT, PROVIDES INSIGHTS INTO HOW CHINA IS LEVERAGING DATA AND GOVERNMENT SUPPORT TO CHALLENGE SILICON VALLEY'S DOMINANCE. THE BOOK ALSO EXAMINES THE BROADER IMPLICATIONS OF AI ON JOBS, ECONOMICS, AND GLOBAL POWER STRUCTURES.

2. *THE CHINA-US TECH COLD WAR: DECODING THE BATTLE FOR GLOBAL DOMINANCE*

THIS WORK DELVES INTO THE ESCALATING TECHNOLOGICAL RIVALRY BETWEEN THE UNITED STATES AND CHINA, HIGHLIGHTING KEY SECTORS LIKE 5G, SEMICONDUCTORS, AND CYBERSECURITY. IT EXPLAINS HOW NATIONAL SECURITY CONCERNS AND ECONOMIC AMBITIONS ARE FUELING THE "TECH COLD WAR." THE BOOK OFFERS AN ANALYSIS OF POLICY DECISIONS AND THEIR IMPACT ON GLOBAL TECHNOLOGY SUPPLY CHAINS.

3. *CHIP WAR: THE FIGHT FOR THE WORLD'S MOST CRITICAL TECHNOLOGY*

WRITTEN BY CHRIS MILLER, THIS BOOK TRACES THE HISTORY AND STRATEGIC IMPORTANCE OF SEMICONDUCTOR TECHNOLOGY IN THE US-CHINA RIVALRY. IT DISCUSSES HOW CHIPS HAVE BECOME CENTRAL TO NATIONAL SECURITY AND ECONOMIC COMPETITIVENESS. THE NARRATIVE INCLUDES THE EFFORTS BY BOTH NATIONS TO DOMINATE CHIP MANUFACTURING AND INNOVATION.

4. *THE GREAT TECH RIVALRY: AMERICA, CHINA, AND THE FUTURE OF INNOVATION*

THIS BOOK EXPLORES HOW THE COMPETITION BETWEEN THE US AND CHINA IS RESHAPING THE GLOBAL INNOVATION ECOSYSTEM. IT COVERS TOPICS SUCH AS GOVERNMENT POLICIES, VENTURE CAPITAL FLOWS, AND TALENT MIGRATION. THE AUTHOR ASSESSES THE POTENTIAL OUTCOMES OF THIS RIVALRY FOR TECHNOLOGY DEVELOPMENT WORLDWIDE.

5. *RED FLAG: CHINA'S DIGITAL RISE AND THE US RESPONSE*

IN THIS BOOK, THE AUTHOR EXAMINES CHINA'S AMBITIOUS DIGITAL STRATEGY AND HOW IT CHALLENGES AMERICAN TECHNOLOGICAL SUPREMACY. IT COVERS AREAS LIKE SURVEILLANCE TECHNOLOGY, QUANTUM COMPUTING, AND DIGITAL INFRASTRUCTURE. THE BOOK ALSO DISCUSSES THE STRATEGIC RESPONSES FROM THE UNITED STATES TO COUNTER CHINA'S ADVANCES.

6. *INNOVATION UNDER PRESSURE: THE US-CHINA BATTLE FOR TECHNOLOGICAL LEADERSHIP*

THIS BOOK ANALYZES HOW GEOPOLITICAL TENSIONS HAVE INTENSIFIED THE RACE FOR TECHNOLOGICAL LEADERSHIP BETWEEN THE US AND CHINA. IT FOCUSES ON INNOVATION POLICIES, RESEARCH FUNDING, AND COLLABORATION RESTRICTIONS. THE AUTHOR PROVIDES A BALANCED VIEW OF THE RISKS AND OPPORTUNITIES ARISING FROM THIS COMPETITION.

7. *DECODING THE DRAGON: TECHNOLOGY TRANSFER AND THE CHINA CHALLENGE*

THIS WORK INVESTIGATES THE ROLE OF TECHNOLOGY TRANSFER IN CHINA'S RAPID TECHNOLOGICAL DEVELOPMENT AND ITS IMPLICATIONS FOR THE US. IT DISCUSSES INTELLECTUAL PROPERTY ISSUES, CORPORATE ESPIONAGE, AND JOINT VENTURES. THE BOOK SHEDS LIGHT ON THE COMPLEX DYNAMICS THAT SHAPE THE US-CHINA TECH RIVALRY.

8. *THE SILICON SILK ROAD: CHINA'S TECH AMBITIONS AND THE GLOBAL RESPONSE*

THIS BOOK EXPLORES CHINA'S EFFORTS TO BUILD A GLOBAL TECHNOLOGY NETWORK THROUGH INITIATIVES LIKE THE DIGITAL

SILK ROAD. IT EXAMINES THE GEOPOLITICAL AND ECONOMIC CONSEQUENCES FOR THE US AND OTHER COUNTRIES. THE AUTHOR HIGHLIGHTS THE STRATEGIC COMPETITION OVER STANDARDS, INFRASTRUCTURE, AND INFLUENCE.

9. *FUTURE FRONTIERS: THE US-CHINA RACE IN EMERGING TECHNOLOGIES*

FOCUSING ON CUTTING-EDGE FIELDS SUCH AS BIOTECHNOLOGY, AI, AND RENEWABLE ENERGY, THIS BOOK OUTLINES THE COMPETITIVE LANDSCAPE BETWEEN THE US AND CHINA. IT DISCUSSES HOW INNOVATION IN THESE AREAS WILL SHAPE GLOBAL POWER BALANCES. THE NARRATIVE EMPHASIZES THE IMPORTANCE OF COLLABORATION AND COMPETITION IN DRIVING TECHNOLOGICAL PROGRESS.

Us Vs China Technology Race

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us vs china technology race: *The United States vs. China* C. Fred Bergsten, 2022-02-24 After leading the world economy for a century, the United States faces the first real challenge to its supremacy in the rise of China. Is economic (or broader) conflict, well beyond the trade and technology war that has already erupted, inevitable between the world's two superpowers? Will their clash produce a new economic leadership vacuum akin to the 1930s, when Great Britain was unable to play its traditional leadership role and a rising United States was unwilling to step in to save the global order? In this sweeping and authoritative analysis of the competition for global economic leadership between China and the United States, C. Fred Bergsten warns of the disastrous consequences of hostile confrontation between these two superpowers. He paints a frightening picture of a world economy adopting Chinese characteristics, in which the United States, after Trump abdicated much of its role, engages in a self-defeating attempt to "decouple" from its rival. Drawing on more than 50 years of active participation as a policymaker and close observation as a scholar, Bergsten calls on China to exercise constructive global leadership in its own self-interest and on the United States to reject a policy of containment, avoid a new Cold War, and instead pursue "conditional competitive cooperation" to work with its allies, and especially China, to lead, rather than destroy, the world economy. Also available as an audiobook.

us vs china technology race: *THE PROMETHEAN PURSUIT IN THE US-CHINA COMPETITION FOR GLOBAL TECHNOLOGICAL LEADERSHIP* Khor Eng Lee, Aaron Khor, Bruno Khor, 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.

us vs china technology race: Technology Rivalry Between the USA and China Peter C.Y. Chow, 2025-02-19 This book addresses the geopolitics and geoeconomics of technological rivalry between the world’s two great powers: the USA and China. It focuses on the semiconductor industry, which, owing to its dual use in civilian and defence sectors, is critical to economic and national security interests. A diverse set of contributions from renowned scholars span wide-ranging topics to holistically analyze contemporary USA-China national security through a technological lens: the shifting trade and technology policy in the USA; the Chip-4 alliance as an industrial cartel; technology sanctions and the voice of high-tech industry in the USA; the race for digital sovereignty in the Gulf region and in Africa; Japan’s grand strategy vis-à-vis semiconductors; a critical assessment of China’s achievement on its self-sufficiency and effort in reducing its reliance on foreign supplies; the significance and the strategy of Taiwan’s semiconductor in the future, as well as how Taiwan can advance its national security through its status as a powerhouse of semiconductors; Korea’s semiconductor policy in response to international technology rivalry; India’s pursuit of semiconductors; and a close investigation of decoupling and hostility between the two great powers.

us vs china technology race: Quantum Technologies and Military Strategy Ajey Lele, 2021-04-12 This book is about the strategic relevance of quantum technologies. It debates the military-specific aspects of this technology. Various chapters of this book cohere around two specific themes. The first theme discusses the global pattern of ongoing civilian and military research on quantum computers, quantum cryptography, quantum communications and quantum internet. The second theme explicitly identifies the relevance of these technologies in the military domain and the possible nature of quantum technology-based weapons. This thread further debates on quantum (arms) race at a global level in general, and in the context of the USA and China, in particular. The book argues that the defence utility of these technologies is increasingly becoming obvious and is likely to change the nature of warfare in the future.

us vs china technology race: China, the USA and Technological Supremacy in Europe Csaba Moldicz, 2021-08-19 The book explores how technological competition is linked to the geopolitical contest between the US and China, and why Europe and the European Union (EU) have become involved in this competition for technological supremacy. China’s political and economic rise, the concurrent US withdrawal from the region, and the rise of new technologies such as 5G, and AI creates a new and more unstable geopolitical environment in the region. In addition, the EU, far from being a global player, finds it increasingly difficult to play a leading role. The book analyses the nature of the ultimate goal of technological competition between the United States and China and shows how and why did the EU become the centre of this struggle. The author argues that the EU has become the new battlefield of the technological struggle since wealthy societies in the EU make this competition attractive and profitable to both the US and China. By shedding light on the geopolitical motivations of China and the question of whether the US can contain China’s advance in this domain, the book will be of interest to practitioners in the fields of international relations and political science as well as policymakers and analysts employed by diplomatic services, multilateral organizations, and non-governmental organizations.

us vs china technology race: China Versus The Us: Who Will Prevail? Alfredo Toro Hardy, 2020-06-24 The heralding of ambitions and hardening of geopolitical and military stances by China has given rise to few questions: Did China challenge the United States too hard and too soon and, by doing so, seriously jeopardize its chances of achieving its objectives? Can Washington still contain China's ascendancy and retain its current leading status? This book attempts to explore these questions and analyse if China has tried to display its strength to America too soon. It argues that by comparing the comprehensive national power of the two countries, one may be able to answer the above questions.

us vs china technology race: China and America's Tech War from AI to 5G A. B. Abrams, 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 country who attains it.

us vs china technology race: Strategic Currents: China And Us Competition For Influence Bernard F W Loo, James Char, 2024-01-04 The advent of the 4th Industrial Revolution amidst the increasingly intensified global competition between the United States and China promises to be a major inflection point in human history. The authors assembled in this volume provide a sober assessment of this techno-nationalist contest and their implications for the rest of the world.

us vs china technology race: The Dragon's Shadow: Unraveling the Enigma of US-China Relations Pasquale De Marco, 2025-03-22 In a rapidly changing world order, the relationship between the United States and China stands as one of the most consequential geopolitical dynamics of our time. This book offers a comprehensive and thought-provoking exploration of US-China relations, delving into the historical, economic, technological, geopolitical, and ideological factors that shape this critical partnership. Drawing on expert analysis and the latest research, the book provides a nuanced understanding of the complex interplay between these two global powers. It examines the historical roots of US-China tensions, tracing their evolution from early encounters to the present day. It also analyzes the rise of China as a global superpower, its growing economic and military might, and the strategic implications of its expansionist policies. Beyond the historical context, the book delves into the intricate web of economic interdependence between the United States and China. It explores the complex dynamics of US-China trade relations, the role of China in the global supply chain, and the impact of China's economic rise on American jobs and industries. It also examines the growing influence of Chinese companies in the US market and the challenges of balancing economic cooperation with national security concerns. The book also investigates the technological realm, where the United States and China are engaged in a fierce race for supremacy. It analyzes the implications of China's advances in key technologies, such as artificial intelligence, robotics, and next-generation wireless networks. It highlights the need for the United States to secure its technological edge and explores the importance of international cooperation on technology governance to prevent a technological Cold War. Moving beyond the economic and technological spheres, the book examines the geopolitical contest between the United States and China. It explores the competing visions for the Asia-Pacific region, the significance of Taiwan and the South China Sea, and the role of US alliances and partnerships in countering China's growing military and economic power. It also discusses China's Belt and Road Initiative and its implications for global trade and infrastructure development. At the heart of US-China relations lies a clash of values and ideologies. The book analyzes the fundamental differences between the political systems and ideologies of the two countries, exploring the challenges of promoting human rights and democracy in China. It also examines the impact of China's authoritarian model on global governance and the need for dialogue and cooperation on shared challenges. If you like this book,

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