

TECHNOLOGY IN THE SIXTIES

TECHNOLOGY IN THE SIXTIES MARKED A PIVOTAL ERA OF INNOVATION AND TRANSFORMATION THAT LAID THE GROUNDWORK FOR MANY MODERN ADVANCEMENTS. THIS DECADE WITNESSED REMARKABLE PROGRESS ACROSS VARIOUS FIELDS INCLUDING COMPUTING, AEROSPACE, TELECOMMUNICATIONS, AND CONSUMER ELECTRONICS. INNOVATIONS SUCH AS EARLY COMPUTERS, SPACE EXPLORATION TECHNOLOGIES, AND THE BIRTH OF THE INTERNET FUNDAMENTALLY CHANGED HOW SOCIETIES FUNCTIONED AND COMMUNICATED. THE SIXTIES ALSO BROUGHT ABOUT REVOLUTIONARY DEVELOPMENTS IN MEDICAL TECHNOLOGY AND AUTOMOTIVE ENGINEERING, REFLECTING THE ERA'S SPIRIT OF EXPLORATION AND MODERNIZATION. THESE BREAKTHROUGHS NOT ONLY INFLUENCED THE ECONOMIC AND SOCIAL LANDSCAPE OF THE TIME BUT CONTINUE TO IMPACT CONTEMPORARY TECHNOLOGY. THIS ARTICLE EXPLORES THE MOST SIGNIFICANT TECHNOLOGICAL ADVANCES OF THE 1960s, THEIR INFLUENCE ON INDUSTRIES, AND THE LEGACY THEY LEFT BEHIND. THE FOLLOWING SECTIONS WILL COVER COMPUTING AND INFORMATION TECHNOLOGY, SPACE EXPLORATION, TELECOMMUNICATIONS, CONSUMER ELECTRONICS, AND TRANSPORTATION INNOVATIONS.

- COMPUTING AND INFORMATION TECHNOLOGY
- SPACE EXPLORATION
- TELECOMMUNICATIONS ADVANCES
- CONSUMER ELECTRONICS
- TRANSPORTATION AND AUTOMOTIVE INNOVATIONS

COMPUTING AND INFORMATION TECHNOLOGY

THE TECHNOLOGY IN THE SIXTIES SAW SIGNIFICANT STRIDES IN THE FIELD OF COMPUTING AND INFORMATION TECHNOLOGY, SETTING THE STAGE FOR THE DIGITAL REVOLUTION THAT WOULD FOLLOW. DURING THIS DECADE, COMPUTERS TRANSITIONED FROM LARGE, ROOM-SIZED MACHINES TO MORE COMPACT AND ACCESSIBLE DEVICES, ENABLING BROADER USE IN SCIENTIFIC RESEARCH, BUSINESS, AND GOVERNMENT.

MAINFRAME COMPUTERS AND EARLY MINICOMPUTERS

MAINFRAME COMPUTERS DOMINATED THE COMPUTING LANDSCAPE IN THE SIXTIES, WITH COMPANIES LIKE IBM LEADING THE CHARGE. THESE POWERFUL MACHINES WERE USED PRIMARILY BY LARGE ORGANIZATIONS FOR COMPLEX CALCULATIONS, DATA PROCESSING, AND ADMINISTRATIVE TASKS. THE DECADE ALSO INTRODUCED EARLY MINICOMPUTERS, SMALLER AND MORE AFFORDABLE ALTERNATIVES THAT MADE COMPUTING MORE ACCESSIBLE TO UNIVERSITIES AND SMALLER BUSINESSES.

DEVELOPMENT OF PROGRAMMING LANGUAGES

THE SIXTIES WERE INSTRUMENTAL IN THE EVOLUTION OF PROGRAMMING LANGUAGES, WHICH CONTRIBUTED TO MORE EFFICIENT AND VERSATILE SOFTWARE DEVELOPMENT. LANGUAGES SUCH AS COBOL AND BASIC WERE DEVELOPED AND POPULARIZED DURING THIS PERIOD, MAKING PROGRAMMING MORE UNDERSTANDABLE AND USABLE ACROSS DIFFERENT SECTORS.

ADVANCES IN SEMICONDUCTOR TECHNOLOGY

THE INVENTION AND REFINEMENT OF SEMICONDUCTOR TECHNOLOGY, PARTICULARLY THE INTEGRATED CIRCUIT, REVOLUTIONIZED COMPUTING HARDWARE. INTEGRATED CIRCUITS ALLOWED MULTIPLE TRANSISTORS TO BE PLACED ON A SINGLE CHIP, DRASTICALLY REDUCING SIZE AND COST WHILE IMPROVING PERFORMANCE. THIS INNOVATION WAS CRITICAL IN THE DEVELOPMENT

OF SMALLER, FASTER, AND MORE RELIABLE COMPUTERS THROUGHOUT THE DECADE.

SPACE EXPLORATION

THE SIXTIES WERE DEFINED BY HISTORIC ACHIEVEMENTS IN SPACE EXPLORATION, DRIVEN LARGELY BY THE COLD WAR SPACE RACE BETWEEN THE UNITED STATES AND THE SOVIET UNION. TECHNOLOGY IN THE SIXTIES ENABLED HUMANKIND TO VENTURE BEYOND EARTH'S ATMOSPHERE AND SET THE FOUNDATION FOR FUTURE SPACE MISSIONS.

APOLLO PROGRAM AND MOON LANDING

THE APOLLO PROGRAM WAS THE MOST AMBITIOUS SPACE PROJECT OF THE DECADE. NASA'S EFFORTS CULMINATED IN THE SUCCESSFUL APOLLO 11 MISSION IN 1969, WHICH LANDED THE FIRST HUMANS ON THE MOON. THIS ACHIEVEMENT REQUIRED GROUNDBREAKING ADVANCES IN ROCKETRY, NAVIGATION, AND LIFE SUPPORT SYSTEMS AND SYMBOLIZED THE PEAK OF 1960S SPACE TECHNOLOGY.

SOVIET SPACE MILESTONES

THE SOVIET UNION MADE SIGNIFICANT CONTRIBUTIONS TO SPACE TECHNOLOGY DURING THE SIXTIES, INCLUDING THE FIRST HUMAN SPACEFLIGHT BY YURI GAGARIN IN 1961. THE USSR ALSO LAUNCHED THE FIRST SPACE STATION AND CONTINUED TO DEVELOP POWERFUL LAUNCH VEHICLES TO COMPETE WITH AMERICAN CAPABILITIES.

SATELLITE TECHNOLOGY

SATELLITE TECHNOLOGY ADVANCED RAPIDLY IN THE SIXTIES, SUPPORTING COMMUNICATIONS, WEATHER MONITORING, AND SCIENTIFIC RESEARCH. THE LAUNCH OF COMMUNICATION SATELLITES LIKE TELSTAR REVOLUTIONIZED GLOBAL TELECOMMUNICATIONS AND PAVED THE WAY FOR THE INTERCONNECTED WORLD.

TELECOMMUNICATIONS ADVANCES

THE DECADE'S TECHNOLOGICAL PROGRESS EXTENDED INTO TELECOMMUNICATIONS, DRAMATICALLY TRANSFORMING HOW INFORMATION WAS EXCHANGED OVER LONG DISTANCES. INNOVATIONS IN THIS SECTOR FACILITATED FASTER, MORE RELIABLE COMMUNICATION AND LAID THE FOUNDATION FOR MODERN TELECOMMUNICATION NETWORKS.

INTRODUCTION OF COMMUNICATION SATELLITES

COMMUNICATION SATELLITES LAUNCHED DURING THE SIXTIES ENABLED REAL-TIME TRANSCONTINENTAL TELEPHONE CALLS AND BROADCAST TELEVISION SIGNALS. THIS TECHNOLOGY BROKE DOWN GEOGRAPHICAL BARRIERS AND WAS A MAJOR STEP TOWARD GLOBAL CONNECTIVITY.

ADVANCEMENTS IN TELEPHONE SYSTEMS

TRADITIONAL ANALOG TELEPHONE SYSTEMS WERE IMPROVED WITH ELECTRONIC SWITCHING SYSTEMS, WHICH INCREASED CALL CAPACITY AND EFFICIENCY. THESE DEVELOPMENTS WERE CRITICAL IN MEETING THE GROWING DEMAND FOR TELEPHONE SERVICES IN THE RAPIDLY EXPANDING URBAN AND SUBURBAN AREAS.

EARLY DATA TRANSMISSION TECHNOLOGIES

TELECOMMUNICATIONS ALSO SAW THE EMERGENCE OF EARLY DATA TRANSMISSION METHODS, INCLUDING PACKET SWITCHING CONCEPTS THAT WOULD EVENTUALLY LEAD TO THE DEVELOPMENT OF THE INTERNET. THESE INNOVATIONS ALLOWED FOR MORE EFFICIENT AND ROBUST COMMUNICATION NETWORKS.

CONSUMER ELECTRONICS

THE SIXTIES USHERED IN A WAVE OF NEW CONSUMER ELECTRONICS THAT BEGAN TO TRANSFORM EVERYDAY LIFE. TECHNOLOGY IN THE SIXTIES MADE ELECTRONIC DEVICES MORE AFFORDABLE AND ACCESSIBLE, INFLUENCING ENTERTAINMENT, COMMUNICATION, AND HOME APPLIANCES.

TELEVISION AND COLOR BROADCASTING

COLOR TELEVISION BECAME WIDELY AVAILABLE DURING THE SIXTIES, ENHANCING THE VIEWING EXPERIENCE AND DRIVING THE MASS ADOPTION OF TV SETS. THE TECHNOLOGY IMPROVEMENTS IN BROADCASTING AND RECEIVER DESIGN SIGNIFICANTLY EXPANDED THE ENTERTAINMENT INDUSTRY'S REACH.

INTRODUCTION OF THE COMPACT CASSETTE

THE COMPACT AUDIO CASSETTE WAS INTRODUCED BY PHILIPS IN 1963, REVOLUTIONIZING HOW PEOPLE LISTENED TO AND SHARED MUSIC. THIS PORTABLE AND EASY-TO-USE FORMAT BECAME A CULTURAL ICON AND LAID THE GROUNDWORK FOR FUTURE PERSONAL AUDIO DEVICES.

EARLY VIDEO GAME TECHNOLOGY

ALTHOUGH IN ITS INFANCY, THE SIXTIES SAW THE CREATION OF SOME OF THE FIRST INTERACTIVE VIDEO GAMES AND ELECTRONIC ENTERTAINMENT DEVICES. THESE EARLY DEVELOPMENTS HINTED AT THE VAST POTENTIAL OF DIGITAL ENTERTAINMENT THAT WOULD EXPLODE IN LATER DECADES.

TRANSPORTATION AND AUTOMOTIVE INNOVATIONS

THE SIXTIES WERE A PERIOD OF SIGNIFICANT TECHNOLOGICAL INNOVATION IN TRANSPORTATION AND AUTOMOTIVE ENGINEERING, DRIVEN BY A GROWING DEMAND FOR SAFER, FASTER, AND MORE EFFICIENT VEHICLES.

SAFETY AND DESIGN IMPROVEMENTS

AUTOMOBILE MANUFACTURERS INTRODUCED NEW SAFETY FEATURES SUCH AS SEAT BELTS, IMPROVED BRAKING SYSTEMS, AND BETTER CRASH PROTECTION DESIGNS DURING THE SIXTIES. THESE INNOVATIONS WERE PROMPTED BY INCREASING AWARENESS OF ROAD SAFETY ISSUES AND GOVERNMENT REGULATIONS.

ADVANCEMENTS IN AEROSPACE TECHNOLOGY

TECHNOLOGICAL PROGRESS IN AEROSPACE WAS NOT LIMITED TO SPACE EXPLORATION; COMMERCIAL AVIATION ALSO BENEFITED FROM NEW JET ENGINE DESIGNS AND IMPROVED AERODYNAMICS. THESE ADVANCEMENTS LED TO FASTER AND MORE RELIABLE AIR TRAVEL, CONTRIBUTING TO THE GLOBALIZATION OF COMMERCE AND TOURISM.

DEVELOPMENT OF MASS TRANSIT SYSTEMS

CITIES AROUND THE WORLD INVESTED IN EXPANDING AND MODERNIZING MASS TRANSIT SYSTEMS DURING THE SIXTIES. INNOVATIONS IN SUBWAY TECHNOLOGY, ELECTRIC TRAINS, AND BUS DESIGNS IMPROVED URBAN MOBILITY AND HELPED ADDRESS THE CHALLENGES OF URBANIZATION.

- INTRODUCTION OF SEAT BELTS IN CARS
- FIRST COMMERCIAL JET AIRLINERS IN WIDESPREAD SERVICE
- EXPANSION OF SUBWAY AND RAIL NETWORKS
- DEVELOPMENT OF MORE FUEL-EFFICIENT ENGINES
- INNOVATIONS IN TRAFFIC MANAGEMENT SYSTEMS

FREQUENTLY ASKED QUESTIONS

WHAT WERE SOME OF THE MOST SIGNIFICANT TECHNOLOGICAL ADVANCEMENTS IN THE 1960s?

THE 1960S SAW SIGNIFICANT TECHNOLOGICAL ADVANCEMENTS SUCH AS THE DEVELOPMENT OF THE FIRST MANNED SPACEFLIGHTS, THE INTRODUCTION OF THE FIRST COMMERCIAL COMPUTERS, THE INVENTION OF THE MICROCHIP, AND EARLY DEVELOPMENTS IN TELECOMMUNICATIONS INCLUDING SATELLITE TECHNOLOGY.

HOW DID THE SPACE RACE INFLUENCE TECHNOLOGY IN THE 1960s?

THE SPACE RACE BETWEEN THE UNITED STATES AND THE SOVIET UNION DROVE RAPID INNOVATION IN ROCKETRY, COMPUTING, MATERIALS SCIENCE, AND TELECOMMUNICATIONS, CULMINATING IN MILESTONES LIKE THE APOLLO MOON LANDING IN 1969 AND THE LAUNCH OF COMMUNICATION SATELLITES.

WHAT ROLE DID THE INVENTION OF THE MICROCHIP PLAY DURING THE 1960s?

THE INVENTION OF THE MICROCHIP IN THE LATE 1950S AND ITS POPULARIZATION IN THE 1960S REVOLUTIONIZED ELECTRONICS BY ENABLING SMALLER, MORE EFFICIENT, AND MORE AFFORDABLE ELECTRONIC DEVICES, PAVING THE WAY FOR MODERN COMPUTERS AND CONSUMER ELECTRONICS.

HOW DID COMPUTERS IN THE 1960s DIFFER FROM MODERN COMPUTERS?

COMPUTERS IN THE 1960S WERE LARGE, EXPENSIVE, AND PRIMARILY USED BY GOVERNMENTS AND LARGE CORPORATIONS FOR COMPLEX CALCULATIONS AND DATA PROCESSING. THEY USED VACUUM TUBES AND EARLY TRANSISTORS, HAD LIMITED PROCESSING POWER, AND LACKED THE USER-FRIENDLY INTERFACES COMMON IN TODAY'S COMPUTERS.

WHAT IMPACT DID TELECOMMUNICATIONS TECHNOLOGY HAVE DURING THE 1960s?

TELECOMMUNICATIONS TECHNOLOGY ADVANCED WITH THE DEPLOYMENT OF COMMUNICATION SATELLITES LIKE TELSTAR, ENABLING TRANSATLANTIC TELEVISION BROADCASTS AND MORE RELIABLE LONG-DISTANCE TELEPHONE COMMUNICATION, WHICH HELPED SHRINK THE PERCEIVED SIZE OF THE WORLD.

WHICH CONSUMER TECHNOLOGIES BECAME POPULAR IN THE 1960s?

POPULAR CONSUMER TECHNOLOGIES IN THE 1960S INCLUDED COLOR TELEVISION SETS, TRANSISTOR RADIOS, EARLY VIDEO GAME CONSOLES, AND HOUSEHOLD APPLIANCES THAT BECAME INCREASINGLY AUTOMATED AND ELECTRIC, IMPROVING CONVENIENCE AND ENTERTAINMENT AT HOME.

HOW DID TECHNOLOGY IN THE 1960S INFLUENCE FUTURE TECHNOLOGICAL DEVELOPMENTS?

THE TECHNOLOGICAL BREAKTHROUGHS OF THE 1960S LAID THE FOUNDATION FOR THE DIGITAL REVOLUTION, INFLUENCING THE DEVELOPMENT OF PERSONAL COMPUTERS, THE INTERNET, SATELLITE COMMUNICATIONS, AND SPACE EXPLORATION TECHNOLOGIES THAT CONTINUE TO EVOLVE TODAY.

ADDITIONAL RESOURCES

1. *"THE DAWN OF THE DIGITAL AGE: TECHNOLOGY IN THE 1960s"*

THIS BOOK EXPLORES THE TRANSFORMATIVE TECHNOLOGICAL BREAKTHROUGHS OF THE 1960S, FROM THE RISE OF MAINFRAME COMPUTERS TO THE BIRTH OF THE INTERNET. IT HIGHLIGHTS KEY INNOVATIONS SUCH AS THE DEVELOPMENT OF INTEGRATED CIRCUITS AND EARLY SOFTWARE PROGRAMMING. THE AUTHOR PROVIDES A COMPREHENSIVE OVERVIEW OF HOW THESE ADVANCEMENTS LAID THE GROUNDWORK FOR MODERN COMPUTING.

2. *"SILICON REVOLUTION: THE EMERGENCE OF COMPUTER TECHNOLOGY IN THE SIXTIES"*

FOCUSING ON THE PIVOTAL DECADE WHEN SILICON CHIPS REPLACED VACUUM TUBES, THIS BOOK DELVES INTO THE TECHNOLOGICAL AND CULTURAL SHIFTS THAT DEFINED THE 1960S. IT COVERS THE EMERGENCE OF SILICON VALLEY AS A TECH HUB AND PROFILES INFLUENTIAL FIGURES LIKE ROBERT NOYCE AND GORDON MOORE. READERS GAIN INSIGHT INTO THE BIRTH OF MICROELECTRONICS AND ITS IMPACT ON SOCIETY.

3. *"SPACE RACE TECHNOLOGY: INNOVATIONS OF THE 1960s"*

THIS TITLE EXAMINES THE TECHNOLOGICAL FEATS DRIVEN BY THE SPACE RACE BETWEEN THE UNITED STATES AND THE SOVIET UNION. IT DETAILS THE DEVELOPMENT OF ROCKETS, SATELLITES, AND COMPUTING SYSTEMS THAT MADE MOON LANDINGS POSSIBLE. THE BOOK ALSO DISCUSSES HOW SPACE TECHNOLOGY INFLUENCED CIVILIAN INDUSTRIES AND INSPIRED GLOBAL SCIENTIFIC PROGRESS.

4. *"PROGRAMMING PARADIGMS: THE EVOLUTION OF SOFTWARE IN THE SIXTIES"*

HIGHLIGHTING THE EARLY DAYS OF SOFTWARE DEVELOPMENT, THIS BOOK REVIEWS THE PROGRAMMING LANGUAGES AND METHODOLOGIES THAT EMERGED DURING THE 1960S. IT DISCUSSES THE INTRODUCTION OF LANGUAGES LIKE COBOL AND BASIC, AND THE CHALLENGES FACED BY PROGRAMMERS AT THE TIME. THE NARRATIVE ILLUSTRATES HOW SOFTWARE BEGAN TO SHAPE THE COMPUTER INDUSTRY.

5. *"TELECOMMUNICATIONS TRANSFORMATION: THE 1960s TECH BREAKTHROUGHS"*

THIS BOOK CHARTS THE ADVANCEMENTS IN TELECOMMUNICATIONS TECHNOLOGY, INCLUDING THE SPREAD OF SATELLITE COMMUNICATIONS AND EARLY COMPUTER NETWORKING. IT COVERS INNOVATIONS SUCH AS THE FIRST TRANSATLANTIC SATELLITE AND THE INTRODUCTION OF DIGITAL SWITCHING SYSTEMS. THE AUTHOR EXPLAINS HOW THESE DEVELOPMENTS REVOLUTIONIZED GLOBAL COMMUNICATION.

6. *"THE BIRTH OF THE INTERNET: PRECURSOR TECHNOLOGIES OF THE 1960s"*

FOCUSING ON THE FOUNDATIONAL TECHNOLOGIES THAT LED TO THE INTERNET, THIS BOOK EXPLORES PROJECTS LIKE ARPANET AND PACKET-SWITCHING CONCEPTS PIONEERED IN THE 1960S. IT PROFILES KEY RESEARCHERS AND INSTITUTIONS THAT CONTRIBUTED TO NETWORK DEVELOPMENT. THE BOOK PROVIDES A CLEAR UNDERSTANDING OF HOW EARLY NETWORKING IDEAS EVOLVED INTO THE MODERN INTERNET.

7. *"CONSUMER ELECTRONICS BOOM: GADGETS AND GIZMOS OF THE SIXTIES"*

THIS ENGAGING READ COVERS THE SURGE IN CONSUMER ELECTRONICS DURING THE 1960S, INCLUDING THE POPULARITY OF TRANSISTOR RADIOS, COLOR TELEVISIONS, AND EARLY VIDEO GAME CONSOLES. IT DISCUSSES HOW MINIATURIZATION AND MASS PRODUCTION MADE TECHNOLOGY ACCESSIBLE TO THE PUBLIC. THE BOOK ALSO TOUCHES ON THE CULTURAL IMPACT OF THESE EMERGING GADGETS.

8. "MAINFRAME ERA: COMPUTING GIANTS OF THE 1960s"

DETAILING THE DOMINANCE OF MAINFRAME COMPUTERS IN BUSINESS AND GOVERNMENT, THIS BOOK HIGHLIGHTS COMPANIES LIKE IBM AND THEIR TECHNOLOGICAL MILESTONES. IT EXPLAINS HOW MAINFRAMES REVOLUTIONIZED DATA PROCESSING AND RECORD-KEEPING. THE BOOK ALSO ADDRESSES THE CHALLENGES OF SIZE, COST, AND PROGRAMMING DURING THIS ERA.

9. "ARTIFICIAL INTELLIGENCE FOUNDATIONS: THE 1960s BREAKTHROUGHS"

THIS BOOK EXPLORES THE EARLY CONCEPTS AND EXPERIMENTS IN ARTIFICIAL INTELLIGENCE DURING THE 1960s. IT COVERS PIONEERING WORK IN MACHINE LEARNING, NATURAL LANGUAGE PROCESSING, AND ROBOTICS. THE AUTHOR DISCUSSES HOW THESE INITIAL EFFORTS SET THE STAGE FOR FUTURE AI DEVELOPMENTS AND THE ONGOING QUEST TO REPLICATE HUMAN INTELLIGENCE.

Technology In The Sixties

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technology in the sixties: The Columbia Guide to America in the 1960s David Farber, Beth Bailey, 2003-04-09 The 1960s continue to be the subject of passionate debate and political controversy, a touchstone in struggles over the meaning of the American past and the direction of the American future. Amid the polemics and the myths, making sense of the Sixties and its legacies presents a challenge. This book is for all those who want to take it on. Because there are so many facets to this unique and transformative era, this volume offers multiple approaches and perspectives. The first section gives a lively narrative overview of the decade's major policies, events, and cultural changes. The second presents ten original interpretative essays from prominent historians about significant and controversial issues from the Vietnam War to the sexual revolution, followed by a concise encyclopedia articles organized alphabetically. This section could stand as a reference work in itself and serves to supplement the narrative. Subsequent sections include short topical essays, special subjects, a brief chronology, and finally an extensive annotated bibliography with ample information on books, films, and electronic resources for further exploration. With interesting facts, statistics, and comparisons presented in almanac style as well as the expertise of prominent scholars, The Columbia Guide to America in the 1960s is the most complete guide to an enduringly fascinating era.

technology in the sixties: Against Technology Steven E. Jones, 2013-01-11 This book addresses the question of what it might mean today to be a Luddite--that is, to take a stand against technology. Steven Jones here explains the history of the Luddites, British textile workers who, from around 1811, proclaimed themselves followers of Ned Ludd and smashed machinery they saw as threatening their trade. Against Technology is not a history of the Luddites, but a history of an idea: how the activities of a group of British workers in Yorkshire and Nottinghamshire came to stand for a global anti-technology philosophy, and how an anonymous collective movement came to be identified with an individualistic personal conviction. Angry textile workers in the early nineteenth century became romantic symbols of a desire for a simple life--certainly not the original goal of the actions for which they became famous. Against Technology is, in other words, a book about representations, about the image and the myth of the Luddites and how that myth was transformed

over time into modern neo-Luddism.

technology in the sixties: Technological Transformation in the Third World: Volume 1 Surendra J. Patel, 2018-03-26 Originally published in 1993, this book contains 4 studies on Asia: Bangladesh, India, South Korea and Sri Lanka. The studies reflect 4 different patterns of technological transformation. India, with its large population has made considerable progress but its overall development has been slow until recently. At the other extreme, South Korea which had a very low per capita income in the 1950s registered a quantum leap in technological transformation within a short span of 30 years. The heritage of Bangladesh's past has constrained its progress in overcoming structural weaknesses but in comparison, Sri Lanka displays a very different pattern. The sources used draw upon research in development economics, economic history, technology and studies in general and country studies in particular.

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technology in the sixties: Chronophobia Pamela M. Lee, 2006-02-17 An examination of the pervasive anxiety about and fixation with time seen in 1960s art. In the 1960s art fell out of time; both artists and critics lost their temporal bearings in response to what E. M. Cioran called not being entitled to time. This anxiety and uneasiness about time, which Pamela Lee calls chronophobia, cut across movements, media, and genres, and was figured in works ranging from kinetic sculptures to Andy Warhol films. Despite its pervasiveness, the subject of time and 1960s art has gone largely unexamined in historical accounts of the period. Chronophobia is the first critical attempt to define this obsession and analyze it in relation to art and technology. Lee discusses the chronophobia of art relative to the emergence of the Information Age in postwar culture. The accompanying rapid technological transformations, including the advent of computers and automation processes, produced for many an acute sense of historical unknowing; the seemingly accelerated pace of life began to outstrip any attempts to make sense of the present. Lee sees the attitude of 1960s art to time as a historical prelude to our current fixation on time and speed within digital culture. Reflecting upon the 1960s cultural anxiety about temporality, she argues, helps us historicize our current relation to technology and time. After an introductory framing of terms, Lee discusses such topics as presentness with respect to the interest in systems theory in 1960s art; kinetic sculpture and new forms of global media; the temporality of the body and the spatialization of the visual image in the paintings of Bridget Riley and the performance art of Carolee Schneemann; Robert Smithson's interest in seriality and futurity, considered in light of his reading of George Kubler's important work *The Shape of Time: Remarks on the History of Things* and

Norbert Wiener's discussion of cybernetics; and the endless belaboring of the present in sixties art, as seen in Warhol's Empire and the work of On Kawara.

technology in the sixties: Concerning Stephen Willats and the Social Function of Art Sharon Irish, 2020-12-10 This book on Stephen Willats pulls together key strands of his practice and threads them through histories of British cybernetics, experimental art, and urban design. For Willats, a cluster of concepts about control and feedback within living and machine systems (cybernetics) offered a new means to make art relevant. For decades, Willats has built relationships through art with people in tower blocks, underground clubs, middle-class enclaves, and warehouses on the Isle of Dogs, to investigate their current conditions and future possibilities. Sharon Irish's study demonstrates the power of Willats's multi-media art to catalyze communication among participants and to upend ideas about "audience" and "art." Here, Irish argues that it is artists like Willats who are now the instigators of social transformation.

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