

Sociology of the Sciences Monographs

**The Nature of
Technological Knowledge.
Are Models of
Scientific Change Relevant?**

Edited by Rachel Laudan



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Nature Of Technological Knowledge Are Models Of Scientific Change Relevant

Eliezer Geisler, Ori Heller



Nature Of Technological Knowledge Are Models Of Scientific Change Relevant:

The Nature of Technological Knowledge. Are Models of Scientific Change Relevant? L. Laudan, 2013-04-09 One of the ironies of our time is the sparsity of useful analytic tools for understanding change and development within technology itself For all the diatribes about the disastrous effects of technology on modern life for all the equally uncritical paeans to technology as the panacea for human ills the vociferous pro and anti technology movements have failed to illuminate the nature of technology On a more scholarly level in the midst of claims by Marxists and non Marxists alike about the technological underpinnings of the major social and economic changes of the last couple of centuries and despite advice given to government and industry about managing science and technology by a small army of consultants and policy analysts technology itself remains locked inside an impenetrable black box a deus ex machina to be invoked when all other explanations of puzzling social and economic phenomena fail The discipline that has probably done most to penetrate that black box in recent years by studying the internal development of technology is history Historians of technology and certain economic historians have carried out careful and detailed studies on the genesis and impact of technological innovations and the structure of the social systems associated with those innovations Within the past few decades tentative consensus about the periodization and the major traditions within the history of technology has begun to emerge at least as far as Britain and America in the eighteenth and nineteenth century are concerned *Portuguese Philosophy of Technology* Helena Mateus Jerónimo, 2022-11-23 This volume is a collection of essays of a philosophical nature on the subject of technology introducing authors from the Portuguese speaking community namely from Portugal itself Africa and Brazil Their contributions detail a unique perspective on technology placing this important topic within the historical ideological and social contexts of their countries all of which share a common language The shared history of these countries and the cultural and economic specificities of each one have stimulated singular insights into these thinkers reflections The essays are thematically diverse Among the topics covered are technogenic knowledge visions of technology risks and uncertainties mediatization digitalization and datafication engineering practice and ethics alternative technoscientific strategies ontotechnologies of the body virtual and archive The contributions also explore other themes that are more closely related to the semi peripheral world such as technological dependence and the incorporation of Western technology into the social structure of ancestral communities This book appeals to students and researchers and provides a voice to authors whose work are not usually available in English language publications It serves as an ideal guide for all those who seek rigorous and geographically widespread knowledge regarding thinking on technology in several Portuguese speaking countries *The Social Construction of Technological Systems, anniversary edition* Wiebe E. Bijker, Thomas Parke Hughes, Trevor Pinch, 2012-05-18 An anniversary edition of an influential book that introduced a groundbreaking approach to the study of science technology and society This pioneering book first published in 1987 launched the new field of social studies of technology It introduced a

method of inquiry social construction of technology or SCOT that became a key part of the wider discipline of science and technology studies The book helped the MIT Press shape its STS list and inspired the Inside Technology series The thirteen essays in the book tell stories about such varied technologies as thirteenth century galleys eighteenth century cooking stoves and twentieth century missile systems Taken together they affirm the fruitfulness of an approach to the study of technology that gives equal weight to technical social economic and political questions and they demonstrate the illuminating effects of the integration of empirics and theory The approaches in this volume collectively called SCOT after the volume's title have since broadened their scope and twenty five years after the publication of this book it is difficult to think of a technology that has not been studied from a SCOT perspective and impossible to think of a technology that cannot be studied that way

Managing Technology in Healthcare Eliezer Geisler, Ori Heller, 2012-12-06 Technology plays a critical role in the management of health care the system its delivery and its organizations This book examines the role of technology in the delivery of health care by physicians and other health care workers and their respective roles in the management of health care technology The complexity of the health care environment and the difficulties in managing technology in general and in health care in particular makes this book a landmark exploration for the purpose of creating in roads into the largely uncharted territory of health care technology The chapters in this book will introduce the horizons that are open for scholarly pursuit in this area Managing Technology in Healthcare has two main objectives First to provide the reader with an overview of the main issues of concern and the topics of study in managing technology in health care Second to offer the reader specific knowledge embedded in the eleven chapters of the book covering a broad range of topics of interest to health care and to R D technology scholars and practitioners

Conceptualizing Technological Change Govindan Parayil, 2002 Technological change has been rightfully identified as the single most important factor for improving material well being Yet despite its centrality in our lives we seem to know very little about technology and how it develops and changes both spatially and temporally In this original and thoughtful book Govindan Parayil draws together current scholarship from disciplines ranging from history to economics to sociology as he develops a cohesive theory of technological change Drawing on a detailed case study of the Green Revolution in Indian agriculture Parayil convincingly argues that technological change is contingent upon the social historical process of knowledge change Thus he explores the policy implications of analyzing technological change as a problem solving activity An innovative contribution to the literature on technological change this ambitious book will also be valuable for those interested in such practical applications as understanding the process of technology transfer

The New Engineer Sharon Beder, 1998 Beyond Programming Bruce I. Blum, 1996 This book provides a unique examination of the software development process arguing that discipline still dominated by methods conceived in the framework of older technologies must undergo a fundamental reexamination of its guiding principles in order for significant progress to take place To gain fresh insights into how we ought to direct future research the author

begins with a search for first principles The book begins with an exploration of the scientific foundations of computer technology then examines design from the perspective of practitioners The book also offers a critique of the methods employed in software development and an evaluation of an alternate paradigm that has been used successfully for 14 years The concepts reviewed here comprise a set of core readings for understanding the research and development challenges that will confront computer technology in the 21st century and will be of great interest to computer science researchers and educators graduate students and software engineers

Humane Interfaces J.P. Marsh,B. Gorayska,J.L. Mey,1999-04-07

Ever since the first successful International Cognitive Technology CT Conference in Hong Kong in August 1995 a growing concern about the dehumanising potential of machines and the machining potential of the human mind has pervaded the organisers thinking When setting up the agenda for the Second International CT Conference in Aizu Japan in August of 1997 they were aware that a number of new approaches had seen the light but that the need to integrate them within a human framework had become more urgent than ever due to the accelerating pace of technological and commercialised developments in the computer related fields of industry and researchWhat the present book does is re emphasize the importance of the human factor not as something that we should also take into account when doing technology but as the primary driving force and supreme aim of our technological endeavours Machining the human should not happen but humanising the machine should La Humacha should replace the Hemachine in our thinking about these matters

Managing Industrial Knowledge Ikujiro Nonaka,David J Teece,2001-02-06 Managing Industrial Knowledge illuminates the complex processes at work in the creation and successful transfer of corporate knowledge It is now generally recognized that the competitive advantages of firms depends on their ability to build utilize and protect knowledge assets In this volume many of the foremost international authors and pioneers of the study of knowledge in firms present their latest work and insights into organizational knowledge and innovation In a world where markets products technologies competitors regulations and even societies change rapidly continuous innovation and the knowledge that produces innovation have become key The chapters in this keynote volume shed new light on the contextual factors in knowledge creation the links between knowledge and innovation in all aspects of business life and the processes by which these may be fostered or lost in organizations

From Lived Experience to the Written Word Pamela H. Smith,2022-09-30 How and why early modern European artisans began to record their knowledge In From Lived Experience to the Written Word Pamela H Smith considers how and why beginning in 1400 CE European craftspeople began to write down their making practices Rather than simply passing along knowledge in the workshop these literate artisans chose to publish handbooks guides treatises tip sheets graphs and recipe books sparking early technical writing and laying the groundwork for how we think about scientific knowledge today Focusing on metalworking from 1400 1800 CE Smith looks at the nature of craft knowledge and skill studying present day and historical practices objects recipes and artisanal manuals From these sources she considers how

we can reconstruct centuries of largely lost knowledge In doing so she aims not only to unearth the techniques material processes and embodied experience of the past but also to gain insight into the lifeworld of artisans and their understandings of matter Defining Technological Literacy J. Dakers,2006-04-29 Never before have we so needed a new literacy that will enable us to meaningfully participate in the rapidly evolving technologically mediated world This collection offers a solid basis for defining this new technological literacy by bringing together theoretical work encompassing philosophy design and pedagogy **Technological Innovation as an Evolutionary Process** John M. Ziman,John Ziman,2003-09-18 Ground breaking yet non technical analysis of the analogy that technological artefacts evolve like biological organisms *History of Technology Volume 15* Graham Hollister-Short, Frank James,2016-09-30 The technical problems confronting different societies and periods and the measures taken to solve them form the concern of this annual collection of essays Volumes contain technical articles ranging widely in subject time and region as well as general papers on the history of technology In addition to dealing with the history of technical discovery and change History of Technology also explores the relations of technology to other aspects of life social cultural and economic and shows how technological development has shaped and been shaped by the society in which it occurred **Emerging Technological Risk** Stuart Anderson,Massimo Felici,2012-01-05 Classes of socio technical hazards allow a characterization of the risk in technology innovation and clarify the mechanisms underpinning emergent technological risk Emerging Technological Risk provides an interdisciplinary account of risk in socio technical systems including hazards which highlight How technological risk crosses organizational boundaries How technological trajectories and evolution develop from resolving tensions emerging between social aspects of organisations and technologies and How social behaviour shapes and is shaped by technology Addressing an audience from a range of academic and professional backgrounds Emerging Technological Risk is a key source for those who wish to benefit from a detail and methodical exposure to multiple perspectives on technological risk By providing a synthesis of recent work on risk that captures the complex mechanisms that characterize the emergence of risk in technology innovation Emerging Technological Risk bridges contributions from many disciplines in order to sustain a fruitful debate Emerging Technological Risk is one of a series of books developed by the Dependability Interdisciplinary Research Collaboration funded by the UK Engineering and Physical Sciences Research Council *Philosophy of Technology* Robert C. Scharff,Val Dusek,2013-12-02 The new edition of this authoritative introduction to the philosophy of technology includes recent developments in the subject while retaining the range and depth of its selection of seminal contributions and its much admired editorial commentary Remains the most comprehensive anthology on the philosophy of technology available Includes editors insightful section introductions and critical summaries for each selection Revised and updated to reflect the latest developments in the field Combines difficult to find seminal essays with a judicious selection of contemporary material Examines the relationship between technology and the understanding of the nature of science that underlies technology studies An Introduction to

Science and Technology Studies Sergio Sismondo, 2011-08-17 An Introduction to Science and Technology Studies Second Edition reflects the latest advances in the field while continuing to provide students with a road map to the complex interdisciplinary terrain of science and technology studies Distinctive in its attention to both the underlying philosophical and sociological aspects of science and technology Explores core topics such as realism and social construction discourse and rhetoric objectivity and the public understanding of science Includes numerous empirical studies and illustrative examples to elucidate the topics discussed Now includes new material on political economies of scientific and technological knowledge and democratizing technical decisions Other features of the new edition include improved readability updated references chapter reorganization and more material on medicine and technology

Technen: Elements of Recent History of Information Technologies with Epistemological Conclusions Andrzej Piotr Wierzbicki, 2014-07-25 The book expresses the conviction that the art of creating tools Greek techne changes its character together with the change of civilization epochs and co determines such changes This does not mean that tools typical for a civilization epoch determine it completely but they change our way of perceiving and interpreting the world There might have been many such epochs in the history of human civilization much more than the three waves of agricultural industrial and information civilization This is expressed by the title Technen of the book where n denotes a subsequent civilization epoch During last fifty years we observed a decomposition of the old episteme understood as a way of creating and interpreting knowledge characteristic for a given civilization epoch of modernism which was an episteme typical for industrial civilization Today the world is differently understood by the representatives of three different cultural spheres of strict and natural sciences of human and social sciences especially by their part inclined towards postmodernism and technical sciences that have a different episteme than even that of strict and natural sciences Thus we observe today not two cultures but three different episteme The book consists of four parts First contains basic epistemological observations second is devoted to selected elements of recent history of information technologies third contains more detailed epistemological and general discussions fourth specifies conclusions The book is written from the cognitive perspective of technical sciences with a full awareness and discussion of its differences from the cognitive perspective of strict sciences or human and social sciences The main thesis of the book is that informational revolution will probably lead to a formation of a new episteme The book includes discussions of many issues related to such general perspective such as what is technology proper what is intuition from a perspective of technology and of evolutionary naturalism what are the reasons for and how large are the delays between a fundamental invention and its broad social utilization what is the fundamental logical error using paradoxes that are not real only apparent of the tradition of sceptical philosophy what are rational foundations and examples of emergence of order out of chaos whether civilization development based on two positive feedbacks between science technology and the market might lead inevitably to a self destruction of human civilization etc

Philosophy of Technology after the Empirical Turn Maarten

Franssen, Pieter E. Vermaas, Peter Kroes, Anthonie W.M. Meijers, 2016-06-23 This volume features 16 essays on the philosophy of technology that discuss its identity its position in philosophy in general and the role of empirical studies in philosophical analyses of engineering ethics and engineering practices This volume is published about fifteen years after Peter Kroes and Anthonie Meijers published a collection of papers under the title *The empirical turn in the philosophy of technology* in which they called for a reorientation toward the practice of engineering and sketched the likely benefits for philosophy of technology of pursuing its major questions in an empirically informed way The essays in this volume fall apart in two different kinds One kind follows up on *The empirical turn* discussion about what the philosophy of technology is all about It continues the search for the identity of the philosophy of technology by asking what comes after the empirical turn The other kind of essays follows the call for an empirical turn in the philosophy of technology by showing how it may be realized with regard to particular topics Together these essays offer the reader an overview of the state of the art of an empirically informed philosophy of technology

Long-run Economics Norman Clark, Calestous Juma, 2013-11-07 A major problem of conventional economic theory as applied to long run economic change is its unduly narrow and static character which compromises its capacity to handle conceptually a social process inherently systemic complex and dynamic At the same time there is a growing realization in relevant government and industrial circles reinforced by the example of Japan that effective economic policy making needs a strategic and therefore a technological content *Long Run Economics* suggests a more realistic conceptual framework for the analysis of economic and technological change Borrowing from other disciplines such as sociology psychology and biology the authors develop a model that is evolutionary and systemic in character Special emphasis is given to the role of information flows in the innovative process while the overall argument is illustrated by two case studies photovoltaics and fuel ethanol Finally the book stresses the strategic importance of science and technology policy and the role of appropriate institutions in facilitating long run economic change

Philosophy of Technology and Engineering Sciences, 2009-11-27 The Handbook *Philosophy of Technology and Engineering Sciences* addresses numerous issues in the emerging field of the philosophy of those sciences that are involved in the technological process of designing developing and making of new technical artifacts and systems These issues include the nature of design of technological knowledge and of technical artifacts as well as the toolbox of engineers Most of these have thus far not been analyzed in general philosophy of science which has traditionally but inadequately regarded technology as mere applied science and focused on physics biology mathematics and the social sciences First comprehensive philosophical handbook on technology and the engineering sciences Unparalleled in scope including explorative articles In depth discussion of technical artifacts and their ontology Provides extensive analysis of the nature of engineering design Focuses in detail on the role of models in technology

Decoding **Nature Of Technological Knowledge Are Models Of Scientific Change Relevant**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Nature Of Technological Knowledge Are Models Of Scientific Change Relevant**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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