



The Mangle of Practice

*Time,
Agency,
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Science*

Andrew Pickering

Mangle Of Practice Time Agency And Science

Andrew Pickering



Mangle Of Practice Time Agency And Science:

The Mangle of Practice Andrew Pickering, 2010-12-15 This ambitious book by one of the most original and provocative thinkers in science studies offers a sophisticated new understanding of the nature of scientific mathematical and engineering practice and the production of scientific knowledge Andrew Pickering offers a new approach to the unpredictable nature of change in science taking into account the extraordinary number of factors social technological conceptual and natural that interact to affect the creation of scientific knowledge In his view machines instruments facts theories conceptual and mathematical structures disciplined practices and human beings are in constantly shifting relationships with one another mangled together in unforeseeable ways that are shaped by the contingencies of culture time and place Situating material as well as human agency in their larger cultural context Pickering uses case studies to show how this picture of the open changeable nature of science advances a richer understanding of scientific work both past and present Pickering examines in detail the building of the bubble chamber in particle physics the search for the quark the construction of the quaternions system in mathematics and the introduction of computer controlled machine tools in industry He uses these examples to address the most basic elements of scientific practice the development of experimental apparatus the production of facts the development of theory and the interrelation of machines and social organization

Science as Practice and Culture Andrew Pickering, 1992-05 Science as Practice and Culture explores one of the newest and most controversial developments within the rapidly changing field of science studies the move toward studying scientific practice the work of doing science and the associated move toward studying scientific culture understood as the field of resources that practice operates in and on Andrew Pickering has invited leading historians philosophers sociologists and anthropologists of science to prepare original essays for this volume The essays range over the physical and biological sciences and mathematics and are divided into two parts In part I the contributors map out a coherent set of perspectives on scientific practice and culture and relate their analyses to central topics in the philosophy of science such as realism relativism and incommensurability The essays in part II seek to delineate the study of science as practice in arguments across its borders with the sociology of scientific knowledge social epistemology and reflexive ethnography

Crossing and Dwelling Thomas A. Tweed, 2009-06-30 A deeply researched and vividly written study this book depicts religion in place and in movement dwelling and crossing Drawing on insights from the natural and social sciences Tweed's work is grounded in the gritty particulars of distinctive religious practices even as it moves toward ideas about cross cultural patterns It offers a responsible way to think broadly about religion a topic that is crucial for understanding the contemporary world

Reframing Science Teaching and Learning David Stroupe, 2017-02-03 Responding to recent reform efforts such as the Next Generation Science Standards which call for students to learn science practices this book proposes a conceptual reframing of the roles of teachers and students in formal and informal science learning settings Inviting the field to examine the state of science practice it provides concrete

examples of how students supported by the actions of educators take on new roles shifting from passive recipients of information to active participants in conceptual social epistemic and material features of science work Each chapter provides an examination of how and why science practice evolves in learning communities in which students and teachers negotiate disciplinary work an analysis of how specific pedagogical and social actions taken by someone with authority a teacher or other educator provides opportunities for students to shape science practices a set of concrete recommendations for working with young students in formal and informal learning settings and a set of suggestions and questions to catalyze future research about and the evolving relationships between educators students and science practices in the field of science education Showing how and why the conceptual ideas presented are important and providing specific actionable suggestions for teachers and other educators for their daily work this book includes both elementary and secondary learning sites

Caught in the Act Cyril Julie,Lorna Holtman,Charles R. Smith,2019-12-11 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers Managing in Uncertainty Chris Mowles,2015-03-24 The reality of everyday organizational life is that it is filled with uncertainty contradictions and paradoxes Yet leaders and managers are expected to act as though they can predict the future and bring about the impossible that they can transform themselves and their colleagues design different cultures choose the values for their organization be innovative control conflict and have inspiring visions Whilst managers will have had lots of experiences of being in charge they probably realise that they are not always in control So how might we frame a much more realistic account of what s possible for managers to achieve Many managers are implicitly aware of their messy reality but they rarely spend much time reflecting on what it is that they are actually doing Drawing on insights from the complexity sciences process sociology and pragmatic philosophy Chris Mowles engages directly with some principal contradictions of organizational life concerning innovation culture change conflict and leadership Mowles argues that if managers proceed from the expectation that organizational life as inherently uncertain and interactions between people are complex and often paradoxical they start noticing different things and create possibilities for acting in different ways Managing in Uncertainty will be of interest to practitioners advanced students and researchers looking at management and organizational studies from a critical perspective Matthew Boulton Sally Baggott,2016-05-13 Matthew Boulton was a leading industrialist

entrepreneur and Enlightenment figure Often overshadowed through his association with James Watt his Soho manufactories put Birmingham at the centre of what has recently been termed The Industrial Enlightenment Exploring his many activities and manufactures and the regional national and international context in which he operated this publication provides a valuable index to the current state of Boulton studies Combining original contributions from social economic and cultural historians with those of historians of science technology and art archaeologists and heritage professionals the book sheds new light on the general culture of the eighteenth century including patterns of work production and consumption of the products of art and industry The book also extends and enhances knowledge of the Enlightenment industrialization and the processes of globalization in the eighteenth century

Interdisciplinarity Andrew Barry, Georgina Born, 2013-06-26 The idea that research should become more interdisciplinary has become commonplace According to influential commentators the unprecedented complexity of problems such as climate change or the social implications of biomedicine demand interdisciplinary efforts integrating both the social and natural sciences In this context the question of whether a given knowledge practice is too disciplinary or interdisciplinary or not disciplinary enough has become an issue for governments research policy makers and funding agencies Interdisciplinarity in short has emerged as a key political preoccupation yet the term tends to obscure as much as illuminate the diverse practices gathered under its rubric This volume offers a new approach to theorising interdisciplinarity showing how the boundaries between the social and natural sciences are being reconfigured It examines the current preoccupation with interdisciplinarity notably the ascendance of a particular discourse in which it is associated with a transformation in the relations between science technology and society Contributors address attempts to promote collaboration between on the one hand the natural sciences and engineering and on the other the social sciences arts and humanities From ethnography in the IT industry to science and technology studies environmental science to medical humanities cybernetics to art science the collection interrogates how interdisciplinarity has come to be seen as a solution not only to enhancing relations between science and society but the pursuit of accountability and the need to foster innovation Interdisciplinarity is essential reading for scholars students and policy makers across the social sciences arts and humanities including anthropology geography sociology science and technology studies and cultural studies as well as all those engaged in interdisciplinary research It will have particular relevance for those concerned with the knowledge economy science policy environmental politics applied anthropology ELSI research medical humanities and art science

Plants, People and Practices Jay Sanderson, 2017-05-18 Article 14 Protection Independent of Measures Regulating Production Certification and Marketing

Cambridge Handbook of Routine Dynamics Martha S. Feldman, Luciana D'Adderio, Brian T. Pentland, Katharina Dittrich, Claus Rerup, David Seidl, 2021-12-16 A comprehensive introduction and overview of research in Routine Dynamics written by the central researchers in the field

Performing Knowledge, 1750-1850 Mary Helen Dupree, Sean B. Franzel, 2015-07-31 The period between 1750 and 1850 was a time when knowledge

and its modes of transmission were reconsidered and reworked in fundamental ways. Social and political transformations such as the French Revolution and the Industrial Revolution went hand in hand with new ways of viewing, sensing and experiencing what was perceived to be a rapidly changing world. This volume brings together a range of essays that explore the performance of knowledge in the period from 1750 to 1850 in the broadest possible sense. The essays explore a wide variety of literary, theatrical and scientific events staged during this period, including scientific demonstrations, philosophical lectures, theatrical performances, stage design, botany primers, musical publications, staged Schiller memorials, acoustic performances and literary declamations. These events served as vital conduits for the larger process of generating, differentiating and circulating knowledge. By unpacking the significance of performance and performativity for the creation and circulation of knowledge in Germany during this period, the volume makes an important contribution to interdisciplinary German cultural studies, performance studies and the history of knowledge.

Johann Reinhold Forster and the Making of Natural History on Cook's Second Voyage, 1772-1775 Anne Mariss, 2019-09-09

James Cook's voyages of exploration are a turning point not only in the history of the British Empire but also in the history of science and exploration of the Pacific. The last decades have seen a wide-ranging scholarly interest in Cook's voyages, focusing on their impact on European and Polynesian societies, their scientific results and their protagonists such as Cook himself or the nobleman Joseph Banks who took part in Cook's first voyage of exploration. This book examines the hitherto underestimated role of the German scholar Johann Reinhold Forster who together with his son Georg Forster accompanied Cook on his second voyage of exploration 1772-1775 as a principal naturalist. For a long time the German traveler has remained a rather shadowy figure of Cook's voyages of exploration and has only attracted scholarly attention occasionally. Focusing on the making of knowledge onboard the ship and the islands where it made landfall, the study provides a historical reappraisal of Forster's scientific performance as a leading naturalist of his time. By examining Forster's Resolution Journal, Anne Mariss takes a microhistorical approach toward the making of natural history knowledge during the expedition to the Pacific. Mariss unveils the difficulties the traveling naturalists encountered while collecting, describing, classifying and painting the natural world. Her study brings to light the contribution of the various actors who were involved in this undertaking, such as the scientific assistants, sailors, officers and the local actors of the Pacific world.

Chasing Technoscience Don Ihde, Evan Selinger, 2003-06-18

An original, quirky and illuminating collection of material concerning the relatively new and exciting field of technoscience studies. The editors' choice of multiple approaches to the work of four major figures is wholly suited to clarifying their unorthodox and consequently somewhat elusive philosophical positions. Robert Scharff. Although often absent from the considerations of philosophers, sociologists and anthropologists, the material dimension plays an important and even essential role in the practices of the sciences. *Chasing Technoscience* Matrix for Materiality begins to redress this absence by bringing together four prominent figures who make technoscience or science embodied in its technologies a central theme of their work.

Through lively personal interviews and substantive essays the ideas of Andrew Pickering Don Ihde Donna Haraway and Bruno Latour are brought to bear on the question of materiality in technoscience The work of these theorists is then compared and critiqued in essays by colleagues Chasing Technoscience is a ground breaking state of the art look at current developments in technoscience Structure, Agency and Biotechnology Aristeidis Panagiotou,2017-07-03 Structure Agency and Biotechnology argues for the significance of sociological theory and highlights the insights it can offer to the study of agricultural biotechnology Cautioning against a simplistic reading of the GM controversy as merely a debate of science versus politics Aristeidis Panagiotou suggests that the discussion should be embedded in the wider social political economic and cultural contexts Structure Agency and Biotechnology assesses the 2012 Rothamsted GM wheat trials and proposes that the tension underlying GM technology should be resolved through sustained dialogue public involvement and broad scientific consensus

Designing Robots, Designing Humans Cathrine Hasse,Dorte Marie Søndergaard,2019-07-24 Whilst most research concentrates on the imagined future of robotics this book brings together a group of international researchers to explore the different ways that robots and humans engage with one another at this point in history Robotic design is advancing at an incredible pace and consequently the role of robots has expanded beyond mechanical work in the industrial sector to the social and domestic environment From kitchen table pets in the shape of dinosaurs or baby seals to robot arms that assist with eating to self driving cars this book explores the psychological impact of robotic engagement especially in domestic settings Each chapter explores a different aspect of humanoid robotics for example the relationship between robotics and gender citizenship moral agency ethics inequality and psychological development as well as exploring the growing role of robots in education care work and intimate relationships Drawing on research from across the fields of psychology anthropology and philosophy this ground breaking volume discusses the emerging social side of robotics By examining our relationship with robots now this book offers a new and innovative opportunity for understanding our future with robots and robotic culture Designing Robots Designing Humans will be interest to researchers of artificial intelligence and humanoid robotics as well as researchers from cognitive and social psychology philosophy computer science anthropology linguistics and engineering backgrounds

Unruly Complexity Peter J. Taylor,2010-12-15 Ambitiously identifying fresh issues in the study of complex systems Peter J Taylor in a model of interdisciplinary exploration makes these concerns accessible to scholars in the fields of ecology environmental science and science studies Unruly Complexity explores concepts used to deal with complexity in three realms ecology and socio environmental change the collective constitution of knowledge and the interpretations of science as they influence subsequent research For each realm Taylor shows that unruly complexity situations that lack definite boundaries where what goes on outside continually restructures what is inside and where diverse processes come together to produce change should not be suppressed by partitioning complexity into well bounded systems that can be studied or managed from an outside vantage point Using case studies from

Australia North America and Africa he encourages readers to be troubled by conventional boundaries especially between science and the interpretation of science and to reflect more self consciously on the conceptual and practical choices researchers make

Materiality and Space Nathalie Mitev,Francois-Xavier de Vaujany,2013-08-09 Materiality and Space focuses on how organizations and managing are bound with the material forms and spaces through which humans act and interact at work It concentrates on organizational practices and pulls together three separate domains that are rarely looked at together sociomateriality sociology of space and social studies of technology The contributions draw on and combine several of these domains and propose analyses of spaces and materiality in a range of organizational practices such as collaborative workspaces media work urban management e learning environments managerial control mobile lives institutional routines and professional identity Theoretical insights are also developed by Pickering on the material world Lyytinen on affordance Lorino on architecture and Introna on sociomaterial assemblages in order to delve further into conceptualizing materiality in organizations

Mathematics Across Cultures Helaine Selin,2012-12-06 Mathematics Across Cultures A History of Non Western Mathematics consists of essays dealing with the mathematical knowledge and beliefs of cultures outside the United States and Europe In addition to articles surveying Islamic Chinese Native American Aboriginal Australian Inca Egyptian and African mathematics among others the book includes essays on Rationality Logic and Mathematics and the transfer of knowledge from East to West The essays address the connections between science and culture and relate the mathematical practices to the cultures which produced them Each essay is well illustrated and contains an extensive bibliography Because the geographic range is global the book fills a gap in both the history of science and in cultural studies It should find a place on the bookshelves of advanced undergraduate students graduate students and scholars as well as in libraries serving those groups

Entanglements Simone Tosoni,2016-11-11 Conversations with a founder of the influential Social Construction of Technology SCOT approach in science and technology studies offer an introduction to the field Science and technology studies STS is a relatively young but influential field Scholars from disciplines as diverse as urban studies mobility studies media studies and body culture studies are engaging in a systematic dialogue with STS seeking to enrich their own investigations Within STS the Social Construction of Technology SCOT theory has proved to be one of the most influential in its neighboring fields Yet the literature has grown so large so quickly it is difficult to get an overview of SCOT In this book conversations with Trevor Pinch a founder of SCOT offer an introduction and genealogy for the field Pinch was there at the creation as coauthor of the groundbreaking 1984 article that launched SCOT and has remained active through subsequent developments Engaging and conversational Pinch charts SCOT's important milestones The book describes how Pinch and Wiebe Bijker adapted the empirical program of relativism developed by the Bath School to study the social construction of scientific facts to apply to the social construction of artifacts Entanglements addresses five issues in depth relevant social groups and SCOT's focus on groups of users the intertwining of social

representation and practices the importance of tacit knowledge in SCOT's approach to the nonrepresentational the controversy over nonhuman agency and the political implications of SCOT Crafting Immunity Jennifer Keelan, 2017-03-02

Immunity is as old as illness itself yet historians have only just begun to take up the challenge of reconstructing the modern transformation of attempts to protect against disease Crafting Immunity assembles in one volume the most recent efforts of an international group of scholars to place the diverse practices of immunity in their historical contexts It is this diversity that provides the book with its greatest source of strength Collectively the papers in this volume suggest that it was the craft like small scale and local conditions of clinical medicine that turned the immunity of individuals and populations into biomedical objects That is to say the modern conception of immunity was at least as much the product of the work of healing as it was the systematic result of discoveries about the immune system Working outside the narrow confines of laboratory histories Crafting Immunity is the first attempt to set the problems of immunity into a variety of social technological institutional and intellectual contexts It will appeal not only to historians and sociologists of health but also to social and cultural historians interested in the biomedical creation of modern health regimens

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