

The Technical Image

A History of Styles in Scientific Imagery

Edited by Maria Bredenkamp, Vera Dierker, and Birgit Schneider

The Center for Image Theory, Design and Society

Established in partnership with the German Research Foundation, Berlin

The Technical Image A History Of Styles In Scientific Imagery

Melissa Lo



The Technical Image A History Of Styles In Scientific Imagery:

The Technical Image Horst Bredekamp, Vera Dünkel, Birgit Schneider, 2019-04-10 In science and technology the images used to depict ideas data and reactions can be as striking and explosive as the concepts and processes they embody both works of art and generative forces in their own right Drawing on a close dialogue between the histories of art science and technology *The Technical Image* explores these images not as mere illustrations or examples but as productive agents and distinctive multilayered elements of the process of generating knowledge Using beautifully reproduced visuals this book not only reveals how scientific images play a constructive role in shaping the findings and insights they illustrate but also however mechanical or detached from individual researchers choices their appearances may be how they come to embody the styles of a period a mindset a research collective or a device Opening with a set of key questions about artistic representation in science technology and medicine *The Technical Image* then investigates historical case studies focusing on specific images such as James Watson s models of genes drawings of Darwin s finches and images of early modern musical automata These case studies in turn are used to illustrate broad themes ranging from Digital Images to Objectivity and Evidence and to define and elaborate upon fundamental terms in the field Taken as a whole this collection will provide analytical tools for the interpretation and application of scientific and technological imagery

Grammatology of Images Sigrid Weigel, 2022-08-16 *Grammatology of Images* radically alters how we approach images Instead of asking for the history power or essence of images Sigrid Weigel addresses imaging as such The book considers how something a visible gets transformed into an image Weigel scrutinizes the moment of *mis en apparition* of making an appearance and the process of concealment that accompanies any imaging Weigel reinterprets Derrida s and Freud s concept of the trace as that which must be thought before something exists In doing so she illuminates the threshold between traces and iconic images between something immaterial and its pictorial representation Chapters alternate between general accounts of the line the index the effigy and the cult image and case studies from the history of science art politics and religion involving faces as indicators of emotion caricatures as effigies of defamation and angels as embodiments of transcendental ideas Weigel s approach to images illuminates fascinating unexpected correspondences between premodern and contemporary image practices between the history of religion and the modern sciences and between things that are and are not understood as art

Sarah Bowdich Lee (1791-1856) and Pioneering Perspectives on Natural History Mary Orr, 2024-09-17 History from below uncovers overlooked protagonists contributing to international endeavour often against considerable odds Mrs T Edward Bowdich then Mrs R Lee 1791 1856 is indicative When women allegedly cannot participate in early nineteenth century scientific exploration discovery and publication Sarah s multiple specialist contributions to French and British natural history have attracted no book length study This first appraisal of Sarah s unbroken production of discipline changing scientific work over three decades in modern ichthyology in historical geography of West Africa and in the next generational dissemination

of expert scientific knowledge does more than fill this gap The book also pivotally investigates the intercultural interdisciplinary and multi genre reach of Sarah s pioneering perspectives and contributions and how she could achieve her work independently in her own name s over three decades Sarah s larger significance is then to provide a very different narrative for women at work in expert nineteenth century natural history making By everywhere challenging the secondary minor and domestic frames for women s contributions of the period the pioneering perspectives of Sarah s story also provide alternative paradigms to the leaky pipeline model still informing women s careers and work in STEM M today **The**

Routledge Companion to Visual Journalism Nicole Dahmen,T.J. Thomson,2025-09-02 Representing the first collection of its kind The Routledge Companion to Visual Journalism introduces fundamental topics and ideas delineates the diversity and complexity of this growing field and creates a foundation for future scholarship and study In the contemporary digital media landscape still and moving images interactive visualizations and virtual reality are increasingly important to attract attention cultivate engagement inform and influence opinions and provide a more emotive and immediate viewing experience for news audiences This Companion draws together leading voices from academia and industry to survey this dynamic and ubiquitous mode and inspire dialogue Along with an introduction and conclusion the volume is structured in five sections and covers people and identities practices and processes technologies equipment and forms theories concepts and values and audience interpretation and impact Beginning by looking at the history of visual news chapters go on to explore how visual news is created how journalists visually represent gender race sexuality disability elites and ordinary citizens key ethical ideas and theories behind the creation of visual news and how visual news is processed drawing in research from eye tracking media psychology and media literacy The book ends with a critical look at the future of the field The Routledge Companion to Visual Journalism is a recommended resource for all advanced students and researchers of visual journalism and communication and will also be of interest to practitioners in these fields Information and the History of Philosophy Chris

Meyns,2021-06-17 In recent years the philosophy of information has emerged as an important area of research in philosophy However until now information s philosophical history has been largely overlooked Information and the History of Philosophy is the first comprehensive investigation of the history of philosophical questions around information including work from before the Common Era to the twenty first century It covers scientific and technology centred notions of information views of human information processing as well as socio political topics such as the control and use of information in societies Organised into five parts 19 chapters by an international team of contributors cover the following topics and more Information before 500 CE including ancient Chinese Greek and Roman approaches to information Early theories of information processing sources of information and cognition Information and computation in Leibniz visualised scientific information copyright and social reform The nineteenth century including biological information knowledge economies and information s role in empire and eugenics Recent and contemporary philosophy of information including racialised

information Shannon information and the very idea of an information revolution Information and the History of Philosophy is a landmark publication in this emerging field As such it is essential reading for students and researchers in the history of philosophy philosophy of science and technology and library and information studies It is also a valuable resource for those working in subjects such as the history of science media and communication studies and intellectual history

Artificial Creativity Alessandra Micalizzi, 2025-07-02 This edited book collects a selection of the best papers submitted for the Artificial Creativity Looking at the Future of Digital Culture meeting held in Milan Italy in June of 2024 The chapters cover the effects of technology on the arts including the narrative visual and auditory This book revisits the notion of what can be considered creative artistic and consequently an expression of our culture It appeals to students and researchers and reveals how the field of creative practice research is constantly shaped by the emergence of new technologies especially intelligent technologies such as AI and machine learning

Scientific Visual Representations in History Matteo Valleriani, Giulia Giannini, Enrico Giannetto, 2023-01-01 This book explores continuity and ruptures in the historical use of visual representations in science and related disciplines such as art history and anthropology The book also considers more recent developments that attest to the unprecedented importance of scientific visualizations such as video recordings animations simulations graphs and enhanced realities The volume collects historical reflections concerned with the use of visual material visualization and vision in science from a historical perspective ranging across multiple cultures from antiquity until present day The focus is on visual representations such as drawings prints tables mathematical symbols photos data visualizations mapping processes and on a meta level visualizations of data extracted from historical sources to visually support the historical research itself Continuity and ruptures between the past and present use of visual material are presented against the backdrop of the epistemic functions of visual material in science The function of visual material is defined according to three major epistemic categories exploration transformation and transmission of knowledge

Birth Figures Rebecca Whiteley, 2023-02-23 The first full study of birth figures and their place in early modern knowledge making Birth figures are printed images of the pregnant womb always shown in series that depict the variety of ways in which a fetus can present for birth Historian Rebecca Whiteley coined the term and here offers the first systematic analysis of the images creation use and impact Whiteley reveals their origins in ancient medicine and explores their inclusion in many medieval gynecological manuscripts focusing on their explosion in printed midwifery and surgical books in Western Europe from the mid sixteenth to the mid eighteenth century During this period birth figures formed a key part of the visual culture of medicine and midwifery and were widely produced They reflected and shaped how the pregnant body was known and treated And by providing crucial bodily knowledge to midwives and surgeons birth figures were also deeply entangled with wider cultural preoccupations with generation and creativity female power and agency knowledge and its dissemination and even the condition of the human in the universe Birth Figures studies how different kinds of people understood childbirth and engaged

with midwifery manuals from learned physicians to midwives to illiterate listeners Rich and detailed this vital history reveals the importance of birth figures in how midwifery was practiced and in how people both medical professionals and lay readers envisioned and understood the mysterious state of pregnancy

Image Politics of Climate Change Birgit

Schneider,Thomas Nocke,2014-06-15 Scientific research on climate change has given rise to a variety of images picturing climate change These range from colorful expert graphics model visualizations photographs of extreme weather events like floods droughts or melting ice symbols like polar bears to animated and interactive visualizations Climate change graphics have not only increased knowledge about the subject they have begun to influence popular awareness of global weather events The status of climate pictures today is particularly crucial as global climate change as a long term process cannot be seen When images are widely distributed they are able to shape how the world is thought about and seen It is this implicit basic assumption of the power of images to influence reality that this book addresses today s images might become the blueprint for tomorrow s realities Image Politics of Climate Change combines a wide interdisciplinary range of perspectives and questions treated here in sixteen interdisciplinary case studies The author s specializations include both visual practice and theory in the fields of climate sciences computer graphics art curating art history and visual studies communication and cultural science environmental and science technology studies The close interlinking of these viewpoints promotes in depth insights into issues of production and analysis of climate visualization

Early Modern Print Media and the Art of

Observation Stephanie A. Leitch,2024-04-04 Early modern printmakers trained observers to scan the heavens above as well as faces in their midst Peter Apian printed the Cosmographicus Liber 1524 to teach lay astronomers their place in the cosmos while also printing practical manuals that translated principles of spherical astronomy into useful data for weather watchers farmers and astrologers Physiognomy a genre related to cosmography taught observers how to scrutinize profiles in order to sum up peoples characters Neither Albrecht Dürer nor Leonardo escaped the tenacious grasp of such widely circulating manuals called practica Few have heard of these genres today but the kinship of their pictorial programs suggests that printers shaped these texts for readers who privileged knowledge retrieval Cultivated by images to become visual learners these readers were then taught to hone their skills as observers This book unpacks these and other visual strategies that aimed to develop both the literate eye of the reader and the sovereignty of images in the early modern world

Handbook of Popular Culture and Biomedicine Arno Görgen,German Alfonso Nunez,Heiner Fangerau,2018-09-10

This handbook explores the ways biomedicine and pop culture interact while simultaneously introducing the reader with the tools and ideas behind this new field of enquiry From comic books to health professionals from the arts to genetics from sci fi to medical education from TV series to ethics it offers different entry points to an exciting and central aspect of contemporary culture how and what we learn about and from scientific knowledge and its representation in pop culture Divided into three sections the handbook surveys the basics the micro and the macroaspects of this interaction between specialized knowledge and

cultural production After the introduction of basic concepts of and approaches to the topic from a variety of disciplines the respective theories and methods are applied in specific case studies The final section is concerned with larger social and historical trends of the use of biomedical knowledge in popular culture Presenting over twenty five original articles from international scholars with different disciplinary backgrounds this handbook introduces the topic of pop culture and biomedicine to both new and mature researchers alike The articles all complete with a rich source of further references are aimed at being a sincere entry point to researchers and academic educators interested in this somewhat unexplored field of culture and biomedicine

Skepticism's Pictures Melissa Lo, 2023-05-26 In seventeenth century northern Europe as the Aristotelian foundations of scientia were rocked by observation experiment confessional strife and political pressure natural philosophers came to rely on the printed image to fortify their epistemologies and none more so than Ren Descartes In *Skepticism's Pictures* historian of science Melissa Lo chronicles the visual idioms that made sustained revised and resisted Descartes's new philosophy Drawing on moon maps political cartoons student notebooks treatises on practical mathematics and other sources Lo argues that Descartes transformed natural philosophy with the introduction of a new graphic language that inspired a wide range of pictorial responses shaped by religious affiliation political commitment and cultural convention She begins by historicizing the graphic vocabularies of Descartes's *Essais* and *Principia philosophiae* and goes on to analyze the religious and civic volatility of Descartes's thought which compelled defenders such as Jacques Rohault and Wolferd Senguerd to reconfigure his pictures according to their local visual cultures and stimulated enemies such as Gabriel Daniel to unravel Descartes's visual logic with devastating irony In the epilogue Lo explains why nineteenth century French philosophers divorced Descartes's thought from his pictures creating a modern image of reason and a version of philosophy absent visuality Engaging and accessible *Skepticism's Pictures* presents an exciting new approach to Descartes and the visual reception of seventeenth century physics It will appeal to historians of early modern European science philosophy art and culture and to art historians interested in histories that give images their argumentative power

Picturing Aura Jeremy Stolow, 2025-04-01 The remarkable history of efforts to visualize the human aura and the lives of its pictures in religion science art and culture *Picturing Aura* is the first book of its kind an extended historical anthropological and philosophical study of modern efforts to visualize the hidden radiant force encompassing the living body known as our aura This rich interdisciplinary study by Jeremy Stolow chronicles the rise and global spread of modern instruments and techniques of picturing aura from the late nineteenth century to the present day exploring how its images are put to work in the diverse realms of psychical research esotericism art photography popular culture and the New Age alternative medical and spiritual marketplace At their core pictures of auras are boundary objects that operate simultaneously in multiple conceptual and practical realms serving varying goals of making art healing bodies and exploring the cosmos Drawing on extensive archival as well as field research Stolow reconstructs a global history of this boundary crossing enterprise through

its evolving media technologies markets and cultural arenas It is a story shaped through exchanges among professionals and amateurs scientists and occultists countercultural artists and entrepreneurs metropolitans and hinterland figures With more than 60 full color illustrations *Picturing Aura* brings to light a remarkable entangled history of picture making that challenges settled assumptions about religion art and science *Science in Color* Bettina Bock von Wülfingen, 2019-08-19 Color makes its way into natural science images as early as the research process It serves for self reflection and for communication within the scientific community However color does not follow a standard in the natural sciences its meaning is contingent even though culturally conditioned Digital publishing enhances the use of color in scientific publications at the same time globalization promotes the idea of universal color symbolism This book investigates the function of color in historical and current visualizations for scientific purposes its epistemic role as a tool and its long neglect due to symbolic and gender specific connotations The publication thus closes a research gap in the natural sciences and the humanities Routledge Handbook of Art, Science, and Technology Studies Hannah Rogers, Megan Halpern, Dehli Hannah, Kathryn de Ridder-Vignone, 2021-12-22 Art and science work is experiencing a dramatic rise coincident with burgeoning Science and Technology Studies STS interest in this area Science has played the role of muse for the arts inspiring imaginative reconfigurations of scientific themes and exploring their cultural resonance Conversely the arts are often deployed in the service of science communication illustration and popularization STS scholars have sought to resist the instrumentalization of the arts by the sciences emphasizing studies of theories and practices across disciplines and the distinctive and complementary contributions of each The manifestation of this commonality of creative and epistemic practices is the emergence of Art Science and Technology Studies ASTS as the interdisciplinary exploration of art science This handbook defines the modes practices crucial literature and research interests of this emerging field It explores the questions methodologies and theoretical implications of scholarship and practice that arise at the intersection of art and STS Further ASTS demonstrates how the arts are intervening in STS Drawing on methods and concepts derived from STS and allied fields including visual studies performance studies design studies science communication and aesthetics and the knowledge of practicing artists and curators ASTS is predicated on the capacity to see both art and science as constructions of human knowledge making Accordingly it posits a new analytical vernacular enabling new ways of seeing understanding and thinking critically about the world This handbook provides scholars and practitioners already familiar with the themes and tensions of art science with a means of connecting across disciplines It proposes organizing principles for thinking about art science across the sciences social sciences humanities and arts Encounters with art and science become meaningful in relation to practices and materials manifest as perceptual habits background knowledge and cultural norms As the chapters in this handbook demonstrate a variety of STS tools can be brought to bear on art science so that systematic research can be conducted on this unique set of knowledge making practices **Giving Bodies Back to Data** Silvia Casini, 2021-08-03 An

examination of the bodily situated aspects of data visualization work looking at visualization practices around the development of MRI technology Our bodies are scanned probed imaged sampled and transformed into data by clinicians and technologists In this book Silvia Casini reveals the affective relations and materiality that turn data into image and in so doing gives bodies back to data Opening the black box of MRI technology Casini examines the bodily situated aspects of visualization practices around the development of this technology Reframing existing narratives of biomedical innovation she emphasizes the important but often overlooked roles played by aesthetics affectivity and craft practice in medical visualization Combining history theory laboratory ethnography archival research and collaborative art science Casini retrieves the multiple presences and agencies of bodies in data visualization mapping the traces of scientists body work and embodied imagination She presents an in depth ethnographic study of MRI development at the University of Aberdeen s biomedical physics laboratory from the construction of the first whole body scanner for clinical purposes through the evolution of the FFC MRI Going beyond her original focus on MRI she analyzes a selection of neuroscience or biomedicine inspired interventions by artists in media ranging from sculpture to virtual reality Finally she presents a methodology for designing and carrying out small scale art science projects describing a collaboration that she herself arranged highlighting the relational and aesthetic laden character of data that are the product of craftsmanship and affective labor at the laboratory bench

Cultures of Prediction in Atmospheric and Climate Science Matthias Heymann, Gabriele Gramelsberger, Martin Mahony, 2017-06-26 In recent decades science has experienced a revolutionary shift The development and extensive application of computer modelling and simulation has transformed the knowledge making practices of scientific fields as diverse as astro physics genetics robotics and demography This epistemic transformation has brought with it a simultaneous heightening of political relevance and a renewal of international policy agendas raising crucial questions about the nature and application of simulation knowledges throughout public policy Through a diverse range of case studies spanning over a century of theoretical and practical developments in the atmospheric and environmental sciences this book argues that computer modelling and simulation have substantially changed scientific and cultural practices and shaped the emergence of novel cultures of prediction Making an innovative interdisciplinary contribution to understanding the impact of computer modelling on research practice institutional configurations and broader cultures this volume will be essential reading for anyone interested in the past present and future of climate change and the environmental sciences **A**

Companion to Illustration Alan Male, 2019-04-09 A contemporary synthesis of the philosophical theoretical and practical methodologies of illustration and its future development Illustration is contextualized visual communication its purpose is to serve society by influencing the many aspects of its cultural infrastructure it dispenses knowledge and education it commentates and delivers journalistic opinion it persuades advertises and promotes it entertains and provides for all forms of narrative fiction A Companion to Illustration explores the definition of illustration through cognition and research and its

impact on culture It explores illustration s boundaries and its archetypal distinction the inflected forms of its parameters its professional contextual educational and creative applications This unique reference volume offers insights into the expanding global intellectual conversation on illustration through a compendium of readings by an international roster of scholars academics and practitioners of illustration and visual communication Encompassing a wide range of thematic dialogues the Companion offers twenty five chapters of original theses examining the character and making of imagery illustration education and research and contemporary and post contemporary context and practice Topics including conceptual strategies for the contemporary illustrator the epistemic potential of active imagination in science developing creativity in a polymathic environment and the presentation of new insights on the intellectual and practical methodologies of illustration Evaluates innovative theoretical and contextual teaching and learning strategies Considers the influence of illustration through cognition research and cultural hypotheses Discusses the illustrator as author intellectual and multi disciplinarian Explores state of the art research and contemporary trends in illustration Examines the philosophical theoretical and practical framework of the discipline A Companion to Illustration is a valuable resource for students scholars and professionals in disciplines including illustration graphic and visual arts visual communications cultural and media and advertising studies and art history

Building Science Graphics Jen Christiansen, 2022-12-09 Building Science Graphics An illustrated guide to communicating science through diagrams and visualizations is a practical guide for anyone regardless of previous design experience and preferred drawing tools interested in creating science centric illustrated explanatory diagrams Starting with a clear introduction to the concept of information graphics and their role in contemporary science communication it then outlines a process for creating graphics using evidence based design strategies The heart of the book is composed of two step by step graphical worksheets designed to help jump start any new project This is both a textbook and a practical reference for anyone that needs to convey scientific information in an illustrated form for articles poster presentations slide shows press releases blog posts social media posts and beyond

On Joachim Jungius' Texturæ
Contemplatio Michael Friedman, 2023-12-27 The book offers an analysis of Joachim Jungius Texturæ Contemplatio a hitherto unpublished manuscript written in German and Latin that deals with weaving knitting and other textile practices attempting to present as well various fabrics and textile techniques in a scientific and even mathematical framework The book aims to provide the epistemological technical and historic framework for Jungius manuscript inspecting fabrics weaving techniques as well as looms and other textile machines in Holy Roman Empire during the Early Modern Period It also offers a unique investigation of the notion and metaphor of texture during this period and explores within the wider context of the meeting or trading zones thesis the relations between artisans and natural philosophers during the 17th century The book is of interest to historians of philosophy and mathematics as well as historians of technology

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