

Technology And Society Building Our Sociotechnical Future Inside Technology

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Sustainable Food Futures
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writings by thinkers ranging from rokeya sakhawat hossain to bruno latour that focus on the

interconnections of technology society and values technological change does not happen in a vacuum decisions about which technologies to develop fund market and use engage ideas about values as well as calculations of costs and benefits in order to influence the development of technology for the better we must first understand how technology and society are inextricably bound together these writings by thinkers ranging from bruno latour to francis fukuyama help us do just that examining how people shape technology and how technology shapes people this second edition updates the original significantly offering twenty one new essays along with fifteen from the first edition the book first presents visions of the future that range from technological utopias to cautionary tales and then introduces several major sts theories it examines human and social values and how they are embedded in technological choices and explores the interesting and subtle complexities of the technology society relationship remedying a gap in earlier theorizing in the field many of the texts illustrate how race and gender are intertwined with technology finally the book offers a set of readings that focus on the sociotechnical challenges we face today treating topics that include cybersecurity geoengineering and the myth of neutral technology

at the same time that the pace of science and technology has greatly accelerated in recent decades our legal and ethical oversight mechanisms have become bogged down and slower this book addresses the growing gap between the pace of science and technology and the lagging responsiveness of legal and ethical oversight society relies on to govern emerging technologies whether it be biotechnology genetic testing nanotechnology synthetic biology computer privacy autonomous robotics or any of the other many emerging technologies new approaches are needed to ensure appropriate and timely regulatory responses this book documents the problem and offers a toolbox of potential regulatory and governance approaches that might be used to ensure more responsive oversight

securing sustainable food for everyone is one of the world s most pressing challenges but research policy and programmes remain fragmented and effective solutions have been slow to emerge this book takes on these challenges by proposing a range of solutions that can advance pathways towards sustainable food futures complete with recipes this book is structured so that readers are taken in a logical progression through discussions of solutions highlighting the need to recognise the importance of place and the importance of participation and to challenge dominant descriptions of markets through to re designing food systems the solutions presented in this book are based on real world cases but discussions remain deliberately broad to encourage thinking in new ways cases are drawn from africa asia europe and north and south america the book is of relevance to those interested in sustainable food futures and can serve as a supplementary textbook for a wide range of courses in food studies and related disciplines

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this book provides a comprehensive view on theories models and techniques used to investigate and analyze incidents and safety causalities occurring in sociotechnical systems consisted of intricately interconnected components sociotechnical systems are always prone to incidents these incidents can ensue with adverse effects on employees and the public the environment and company s properties and reputation sometimes a single incident has the potential to terminate the operation of a business forever as incidents are multi factorial and not easy to comprehend they should be investigated systematically in a structured way so as to find their root causes and prevent them from recurring consequently there have been developed many theories models and techniques aimed at accomplishing this goal however each approach has its own upsides and downsides and there is no universal one applicable to all cases therefore researchers and practitioners may sometimes find it difficult to select the most appropriate approach for the given case after introducing theories models and techniques pertaining to incident investigation and safety causalities modeling this book explains each one in details and discusses their pros and cons the book aims to provide the audience with a step by step guidance for performing incident investigation and analysis at the end of each chapter an example is analyzed by the introduced tool finally the book offers criteria based on which an incident analysis technique can be selected

step inside the shoes of video game creators in this fascinating look at game development and how it can inform our understanding of work rank and file game developers bring videogames from concept to product and yet their work is almost invisible hidden behind the famous names of publishers executives or console manufacturers in this book casey o donnell examines the creative collaborative practice of typical game developers his investigation of why game developers work the way they do sheds light on our understanding of work the organization of work and the market forces that shape and are

shaped by media industries o donnell shows that the ability to play with the underlying systems technical conceptual and social is at the core of creative and collaborative practice which is central to the new economy when access to underlying systems is undermined so too is creative collaborative process drawing on extensive fieldwork in game studios in the united states and india o donnell stakes out new territory empirically conceptually and methodologically mimicking the structure of videogames the book is divided into worlds within which are levels and each world ends with a boss fight a rant about lessons learned and tools mastered o donnell describes the process of videogame development from pre production through production considering such aspects as experimental systems socially mandatory overtime and the perpetual startup machine that exhausts young initially enthusiastic workers he links work practice to broader systems of publishing manufacturing and distribution introduces the concept of a privileged actor intra internetwork and describes patent and copyright enforcement by industry and the state

an examination of how the technical choices social hierarchies economic structures and political dynamics shaped the soviet nuclear industry leading up to chernobyl the chernobyl disaster has been variously ascribed to human error reactor design flaws and industry mismanagement six former chernobyl employees were convicted of criminal negligence they defended themselves by pointing to reactor design issues other observers blamed the soviet style of ideologically driven economic and industrial management in producing power sonja schmid draws on interviews with veterans of the soviet nuclear industry and extensive research in russian archives as she examines these alternate accounts rather than pursue one definitive explanation she investigates how each of these narratives makes sense in its own way and demonstrates that each implies adherence to a particular set of ideas about high risk technologies human machine interactions organizational methods for ensuring safety and productivity and even about the legitimacy of the soviet state she also shows how these attitudes shaped and were shaped by the soviet nuclear industry from its very beginnings schmid explains that soviet experts established nuclear power as a driving force of social not just technical progress she examines the soviet nuclear industry s dual origins in weapons and electrification programs and she traces the emergence of nuclear power experts as a professional community schmid also fundamentally reassesses the design choices for nuclear power reactors in the shadow of the cold war s arms race schmid s account helps us understand how and why a complex sociotechnical system broke down chernobyl while unique and specific to the soviet experience can also provide valuable lessons for contemporary nuclear projects

studies challenging the idea that technology and science flow only from global north to south the essays in this volume study the creation adaptation and use of science and technology in latin america they challenge the view that scientific ideas and technology travel unchanged from the global north to the global south the view of technology as imported magic they describe not only alternate pathways for innovation invention and discovery but also how ideas and technologies circulate in latin american contexts and

transnationally the contributors explorations of these issues and their examination of specific latin american experiences with science and technology offer a broader more nuanced understanding of how science technology politics and power interact in the past and present the essays in this book use methods from history and the social sciences to investigate forms of local creation and use of technologies the circulation of ideas people and artifacts in local and global networks and hybrid technologies and forms of knowledge production they address such topics as the work of female forensic geneticists in colombia the pioneering argentinean use of fingerprinting technology in the late nineteenth century the design use and meaning of the xo laptops created and distributed by the one laptop per child program and the development of nuclear energy in argentina mexico and chile contributors pedro ignacio alonso morgan g ames javiera barandiarán joão biehl anita say chan amy cox hall henrique cukierman ana delgado rafael dias adriana díaz del castillo h mariano fressoli jonathan hagood christina holmes matthieu hubert noela invernizzi michael lemon ivan da costa marques gisela mateos eden medina maría fernanda olarte sierra hugo palmarola tania pérez bustos julia rodriguez israel rodríguez giralt edna suárez díaz hernán thomas manuel tironi dominique vinck

sociotechnical principles are now widely used around the world in both information systems is and organizational design first established in the 1940s to examine the effect of mechanized mass production systems on workers they are now an important tool for ensuring that people and technology work together optimally within an organization this book examines the use of sociotechnical principles and practice in is and organizational design modern sociotechnical approaches are analyzed and future directions for the field are presented

hardbound the conference from which these papers originate forms a continuation of the working conference system design for with and by the users held in italy in 1982 the participants included many engineers and computer scientists as well as behavioural and social scientists the papers selected form a cross section of the perspectives and priorities guiding research and development efforts in the various scientific and professional disciplines concerned the conference and this volume confirm and strengthen the conviction of the members of ifip wg9 1 computers and work that an active and meaningful participation by users should be an essential feature of the development and introduction of information technology in working life

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