FLIGHT PLAN to the MOON

When Computers Were Human

Anna Lena Bischoff

When Computers Were Human:

   When Computers Were Human David Grier,2013 Before Palm Pilots and iPods PCs and laptops the term computer referred to the people who did scientific calculations by hand These workers were neither calculating geniuses nor idiot savants but knowledgeable people who in other circumstances might have become scientists in their own right When Computers Were Human represents the first in depth account of this little known 200 year epoch in the history of science and technology Beginning with the story of his own grandmother who was trained as a human computer David Alan Grier provides a poignant introduction to the wider world of women and men who did the hard computational labor of science His grandmother s casual remark I wish I d used my calculus hinted at a career deferred and an education forgotten a secret life unappreciated like many highly educated women of her generation she studied to become a human computer because nothing else would offer her a place in the scientific world The book begins with the return of Halley s comet in 1758 and the effort of three French astronomers to compute its orbit It ends four cycles later with a UNIVAC electronic computer projecting the 1986 orbit In between Grier tells us about the surveyors of the French Revolution describes the calculating machines of Charles Babbage and guides the reader through the Great Depression to marvel at the giant computing room of the Works Progress Administration When Computers Were Human is the sad but lyrical story of workers who gladly did the hard labor of research calculation in the hope that they might be part of the scientific community In the end they were rewarded by a new electronic machine that took the place and the name of those who were once the computers   **When Computers Were Human** David Alan Grier,2013-11-01 Before Palm Pilots and iPods PCs and laptops the term computer referred to the people who did scientific calculations by hand These workers were neither calculating geniuses nor idiot savants but knowledgeable people who in other circumstances might have become scientists in their own right When Computers Were Human represents the first in depth account of this little known 200 year epoch in the history of science and technology Beginning with the story of his own grandmother who was trained as a human computer David Alan Grier provides a poignant introduction to the wider world of women and men who did the hard computational labor of science His grandmother s casual remark I wish I d used my calculus hinted at a career deferred and an education forgotten a secret life unappreciated like many highly educated women of her generation she studied to become a human computer because nothing else would offer her a place in the scientific world The book begins with the return of Halley s comet in 1758 and the effort of three French astronomers to compute its orbit It ends four cycles later with a UNIVAC electronic computer projecting the 1986 orbit In between Grier tells us about the surveyors of the French Revolution describes the calculating machines of Charles Babbage and guides the reader through the Great Depression to marvel at the giant computing room of the Works Progress Administration When Computers Were Human is the sad but lyrical story of workers who gladly did the hard labor of research calculation in the hope that they might be part of the scientific community In the end they were

rewarded by a new electronic machine that took the place and the name of those who were once the computers **Empire of the Sum** Keith Houston,2023-08-22 A New York Times Book Review Editors Choice A lively entertaining history New York Times Book Review Editors Choice The hidden history of the pocket calculator a device that ushered in modern mathematics helped build the atomic bomb and went with us to the moon and the mathematicians designers and inventors who brought it to life Starting with hands abacus and slide rule humans have always reached for tools to simplify math Pocket sized calculators ushered in modern mathematics helped build the atomic bomb took us to the bottom of the ocean and accompanied us to the moon The pocket calculator changed our world until it was supplanted by more modern devices that in a cruel twist of irony it helped to create The calculator is dead long live the calculator In this witty mathematic and social history Keith Houston transports readers from the nascent economies of the ancient world to World War II where a Jewish engineer calculated for his life at Buchenwald and into the technological arms race that led to the first affordable electronic pocket calculators At every turn Houston is a scholarly affable guide to this global history of invention Empire of the Sum will appeal to math lovers history buffs and anyone seeking to understand our trajectory to the computer age **Reverse Engineering Social Media** Robert W Gehl,2014-06-27 Robert Gehl s timely critique Reverse Engineering Social Media rigorously analyzes the ideas of social media and software engineers using these ideas to find contradictions and fissures beneath the surfaces of glossy sites such as Facebook Google and Twitter Gehl adeptly uses a mix of software studies science and technology studies and political economy to reveal the histories and contexts of these social media sites Looking backward at divisions of labor and the process of user labor he provides case studies that illustrate how binary Like consumer choices hide surveillance systems that rely on users to build content for site owners who make money selling user data and that promote a culture of anxiety and immediacy over depth Reverse Engineering Social Media also presents ways out of this paradox illustrating how activists academics and users change social media for the better by building alternatives to the dominant social media sites The Software Arts Warren Sack,2019-04-09 An alternative history of software that places the liberal arts at the very center of software s evolution In The Software Arts Warren Sack offers an alternative history of computing that places the arts at the very center of software s evolution Tracing the origins of software to eighteenth century French encyclopedists step by step descriptions of how things were made in the workshops of artists and artisans Sack shows that programming languages are the offspring of an effort to describe the mechanical arts in the language of the liberal arts Sack offers a reading of the texts of computing code algorithms and technical papers that emphasizes continuity between prose and programs He translates concepts and categories from the liberal and mechanical arts including logic rhetoric grammar learning algorithm language and simulation into terms of computer science and then considers their further translation into popular culture where they circulate as forms of digital life He considers among other topics the arithmetization of knowledge that presaged digitization today s multitude of logics the history of demonstration

from deduction to newer forms of persuasion and the post Chomsky absence of meaning in grammar With The Software Arts Sack invites artists and humanists to see how their ideas are at the root of software and invites computer scientists to envision themselves as artists and humanists   *Magnetic Field Effects in Low-Dimensional Quantum Magnets* Adam Iaizzi,2018-11-28 This thesis is a tour de force combination of analytic and computational results clarifying and resolving important questions about the nature of quantum phase transitions in one and two dimensional magnetic systems The author presents a comprehensive study of a low dimensional spin half quantum antiferromagnet the J Q model in the presence of a magnetic field in both one and two dimensions demonstrating the causes of metamagnetism in such systems and providing direct evidence of fractionalized excitations near the deconfined quantum critical point In addition to describing significant new research results this thesis also provides the non expert with a clear understanding of the nature and importance of computational physics and its role in condensed matter physics as well as the nature of phase transitions both classical and quantum It also contains an elegant and detailed but accessible summary of the methods used in the thesis exact diagonalization Monte Carlo quantum Monte Carlo and the stochastic series expansion that will serve as a valuable pedagogical introduction to students beginning in this field   *Calculation and Computation in the Pre-electronic Era* Aristotle Tympas,2018-01-12 Although it is popularly assumed that the history of computing before the second half of the 20th century was unimportant in fact the Industrial Revolution was made possible and even sustained by a parallel revolution in computing technology An examination and historiographical assessment of key developments helps to show how the era of modern electronic computing proceeded from a continual computing revolution that had arisen during the mechanical and the electrical ages This unique volume introduces the history of computing during the first steam and second electricity segments of the Industrial Revolution revealing how this history was pivotal to the emergence of electronic computing and what many historians see as signifying a shift to a post industrial society It delves into critical developments before the electronic era focusing on those of the mechanical era from the emergence of the steam engine to that of the electric power network and the electrical era from the emergence of the electric power network to that of electronic computing In so doing it provides due attention to the demarcations between and associated classifications of artifacts for calculation during these respective eras In turn it emphasizes the history of comparisons between these artifacts Topics and Features motivates exposition through a firm historiographical argument of important developments explores the history of the slide rule and its use in the context of electrification examines the roles of analyzers graphs and a whole range of computing artifacts hitherto placed under the allegedly inferior class of analog computers shows how the analog and the digital are really inseparable with perceptions thereof depending on either a full or a restricted view of the computing process investigates socially situated comparisons of computing history including the effects of a political economy of computing one that takes into account cost and ownership of computing artifacts assesses concealment of analog machine labor through encasement black

boxing Historians of computing as well as those of technology and science especially energy will find this well argued and presented history of calculation and computation in the mechanical and electrical eras an indispensable resource The work is a natural textbook companion for history of computing courses and will also appeal to the broader readership of curious computer scientists and engineers as well as those who generally just have a yearn to learn the contextual background to the current digital age In this fascinating original work Tympas indispensably intertwines the histories of analog and digital computing showing them to be inseparable from the evolution of social and economic conditions Prof David Mindell MIT

Believing Minds. Fernando José Walsh,2025-10-09 Is science truly the enemy of faith Can a practicing scientist believe in God Is there an inevitable clash between scientific knowledge and the Bible From Copernicus 1473 1543 to contemporary researchers 200 highly distinguished scientists provide compelling testimony that science clearly affirms a Creator one perfectly consistent with the God revealed in the Scriptures This book delves into the lives and powerful convictions of these titans of science who were also giants of faith The culmination of years of deep investigation this book uncovers a profound truth often obscured by media influence the supposed incompatibility between science and faith is a fallacy Instead it reveals that modern science was born and accelerated by thinkers who based their research on the foundational belief in a wisely designed universe They saw nature s laws as the imprint of a Supreme Creator who empowered humanity created in His image to discover these laws for universal good Explore the inspiring journeys remarkable achievements and deep spiritual convictions of legendary figures like Newton Galileo Pascal Morse Pasteur Edison Marconi and Einstein Featured within are over 30 Nobel Prize winners in crucial scientific fields alongside astronauts whose perspectives were transformed by their experiences Grounded in extensive meticulous research the book champions its thesis with undeniable clarity Science demonstrates that God exists Derek Barton 1918 1998 Nobel Laureate in Chemistry 1969 *Implications of the Computer Revolution* Joseph D. Bronzino,1989 *Automated Systems Based on Human Skill and Knowledge 2003* Johan Stahre,Lilian Mårtensson,2004 Focusing the impact of automation on the human this symposium aims to arrange a solution oriented meeting between international scientists application specialists and industrial experts The topics include Human centred and participatory design Adaptive and dynamic automation levels of automation automation in working life and others **Tacit and theoretical knowledge in skill development** Anna Lena Bischoff,2016-09-05 Seminar paper from the year 2016 in the subject Business economics General grade 1 0 Linnaeus University School of Economics course Skills and Technology language English abstract The course describes the topics of tacit knowledge the introduction to the area of Skill and Technology makes distinctions between rules and the following of rules between the abstract and the concrete and problems and dilemmas in society from the perspective of professional skill Discover ,2005-07 **Talking to People Versus Talking to Computers** Nicole Shechtman,2002 *The Journal of the American Society for Psychical Research* American Society for Psychical Research,1996 List of members in v 1 6 12 **Too Soon To Tell** David A. Grier,2009-02-12 Based on

author David A Grier s column In Our Time which runs monthly in Computer magazine Too Soon To Tell presents a collection of essays skillfully written about the computer age an era that began February 1946 Examining ideas that are both contemporary and timeless these chronological essays examine the revolutionary nature of the computer the relation between machines and human institutions and the connections between fathers and sons to provide general readers with a picture of a specific technology that attempted to rebuild human institutions in its own image   **Proceedings** American Institute for Decision Sciences. Meeting,1977   *WTF?* Tim O'Reilly,2017-10-10 Can we master the technologies we create before they master us A punchy and provocative assessment by one of Silicon Valley s sharpest observers Financial Times WTF can be an expression of amazement or of dismay and today s technology elicits both reactions In this book Tim O Reilly dubbed the Oracle of Silicon Valley by Inc magazine explores the upsides and potential downsides of today s WTF technologies What is the future when an increasing number of jobs can be performed by intelligent machines instead of people or done only by people in partnership with those machines What happens to our consumer based societies to workers and the companies that depend on their purchasing power Is income inequality and unemployment an inevitable consequence of technological advancement or are there paths to a better future What will happen to business when technology enabled networks and marketplaces are better at deploying talent than traditional companies How should companies organize themselves to take advantage of these new tools What s the future of education when on demand learning outperforms traditional institutions How can individuals adapt and retrain Will the fundamental social safety nets of the developed world survive the transition and if not what will replace them O Reilly is the man who can really can make a whole industry happen according to former Google CEO Eric Schmidt and for decades he s identified and helped shape our response to emerging technologies with world shaking potential from the World Wide Web to Big Data and AI Here he shares the techniques he s used at O Reilly Media to anticipate innovation waves and provides a framework for thinking about how current innovations are changing the nature of business education government financial markets and the economy as a whole He helps us understand how the parts of digital businesses work together to create marketplace advantage and customer value and why ultimately they cannot succeed unless their ecosystem succeeds along with them O Reilly exhorts businesses to DO MORE with technology rather than just using it to cut costs and enrich their shareholders Robots are going to take our jobs they say O Reilly replies Only if that s what we ask them to do Technology is the solution to human problems and we won t run out of work till we run out of problems Whether technology brings the WTF of wonder or the WTF of dismay isn t inevitable It s up to us A compelling narrative of how technology interweaves with the real world If it can cajole even a few tech titans to dwell on the social and political impact of what they do then it will have served a useful purpose Financial Times WTF is a book about technology as it was as it is and as it could be It is told from the perspective of someone who has been personally present at the most important moments in the fast paced history of tech and who played a significant role in

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