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KEY=ENGINE - CARNEY FARRELL

The Difference Engine

Hachette UK *The computer age has arrived a century ahead of time with Charles Babbage's perfection of his Analytical Engine. The Industrial Revolution, supercharged by the development of steam-driven cybernetic Engines, is in full and drastic swing. Great Britain, with her calculating-cannons, steam dreamnoughts, machine-guns and information technology, prepares to better the world's lot . . .*

The Difference Engine

A Novel

Spectra *1855: The Industrial Revolution is in full and inexorable swing, powered by steam-driven cybernetic Engines. Charles Babbage perfects his Analytical Engine and the computer age arrives a century ahead of its time. And three extraordinary characters race toward a rendezvous with history—and the future: Sybil Gerard—a fallen woman, politician's tart, daughter of a Luddite agitator Edward "Leviathan" Mallory—explorer and paleontologist Laurence Oliphant—diplomat, mystic, and spy. Their adventure begins with the discovery of a box of punched Engine cards of unknown origin and purpose. Cards someone wants badly enough to kill for.... Part detective story, part historical thriller, The Difference Engine is the collaborative masterpiece by two of the most acclaimed science fiction authors writing today. Provocative, compelling, intensely imagined, it is a startling extension of Gibson's and Sterling's unique visions—and the beginning of movement we know today as "steampunk!"*

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The Difference Engine

Charles Babbage and the Quest to Build the First Computer

Viking Adult *A portrait of early nineteenth-century mathematician Charles Babbage describes his efforts to construct the first computing machine more than one century before the invention of the modern computer. 22,500 first printing.*

Sketch of the Analytical Engine invented by Charles Babbage ... with notes by the translator. Extracted from the 'Scientific Memoirs,' etc. [The translator's notes signed: A.L.L. ie. Augusta Ada King, Countess Lovelace.]

The Difference Engine

Charles Babbage and the Quest to Build the First Computer

Penguin Group USA *A portrait of early nineteenth-century mathematician Charles Babbage describes his efforts to construct the first computing machine more than one century before the invention of the modern computer. Reprint.*

The Difference Engine/Boxed

Spectra *In 1855 London, a steam driven calculator heralds a new age of information as everything from fast food to credit cards turns the Victorian Era into a bizarre modern-day world. "Bursting with the kind of demented speculation and obsessive detailing that has made both Gibson's and Sterling's work stand out in the past".--San Francisco Chronicle.*

The Works of Charles Babbage: The difference engine and table making

Glory and Failure

The Difference Engines of Johann Müller, Charles Babbage and Georg and Edvard Scheutz

Charles Babbage

And the Engines of Perfection

Oxford University Press *Charles Babbage, "the grandfather of the modern computer," did not live to see even one of his calculating machines at work. A dazzling genius with vision extending far beyond the limitations of the Victorian age, Babbage successfully calculated a table of logarithms during his years at Cambridge University, allowing mathematical calculations to be executed with extreme precision. Only the possibility of human error prevented complete accuracy, and Babbage understood that the only way to attain perfection is to leave the human mind entirely out of the equation. He devoted most of his life and spent most of his private fortune and government stipend trying to improve his difference engines and analytical engines.Bruce Collier and James MacLachlan chronicle Babbage's education and scientific career, his remarkably active social life and long string of personal tragedies, his forays into philosophy and economics, his successes and failures, and the biggest disappointment of his life-- his ingenious inventions were centuries ahead of the primitive capabilities of Victorian technology.*

The Difference Engine and Table Making

The Thrilling Adventures of Lovelace and Babbage

The (Mostly) True Story of the First Computer

Penguin UK *In The Thrilling Adventures of Lovelace and Babbage Sydney Padua transforms one of the most compelling scientific collaborations into a hilarious set of adventures The Thrilling Adventures of Lovelace and Babbage is a unique take on the unrealized invention of the computer in the 1830s by the eccentric polymath Charles Babbage and his accomplice, the daughter of Lord Byron, Ada, Countess of Lovelace. When Ada translated her friend Babbage's plans for the "Difference Engine," her lengthy footnotes contained the first appearance of the general computing theory-one hundred years before an actual computer was built. Sadly, Lovelace died of cancer a few years after publishing the paper, and Babbage never built any of his machines. But now Sydney Padua gives us an alternate reality in which Lovelace and Babbage do build the Difference Engine, and then use it to do battle with the American banking system, the publishing industry and their own fears that their project will lose funding -- all "for the sake of both London and science". Sydney Padua is a graphic artist and animator. Her visual effects work includes both hand-drawn and computer-generated and appears in such films as The Iron Giant, Clash of the Titans, and John Carter. Her webcomic The Thrilling Adventures of Lovelace and Babbage has been featured on the BBC's Techlab, and in The Economist, The Times, and Wired UK. She is a Canadian living in London.*

All Tomorrow's Parties

Penguin UK *Rydell is on his way back to near-future San Francisco. A stint as a security man in an all-night Los Angeles convenience store has convinced him his career is going nowhere, but his friend Laney, phoning from Tokyo, says there's more interesting work for him in Northern California. And there is, although it will eventually involve his former girlfriend, a Taoist assassin, the secrets Laney has been hacking out of the depths of DatAmerica, the CEO of the PR firm that secretly runs the world and the apocalyptic technological transformation of, well, everything. William Gibson's new novel, set in the soon-to-be-fact world of VIRTUAL LIGHT and IDORU, completes a stunning, brilliantly imagined trilogy about the post-Net world.*

The Difference Engine and Table Making

The Difference Engine

Computing, Knowledge, and the Transformation of Learning

<u>Rowman & Littlefield Pub Incorporated</u> *Since the 1960s, the rapid evolution of technology has created a new cultural, visual geography. The Difference Engine offers a conscious critique of this change and its effects on contemporary culture and education. Deriving its name from Charles Babbage's experimental calculating machine—the first modern computer—Provenzo's new book provides a unique perspective by examining the results of this change.*

Babbage's Calculating Engines

Being a Collection of Papers Relating to them; their History and Construction

<u>Cambridge University Press</u> *The famous and prolific nineteenth-century mathematician, engineer and inventor Charles Babbage (1791-1871) was an early pioneer of computing. He planned several calculating machines, but none was built in his lifetime. On his death his youngest son, Henry P. Babbage, was charged with the task of completing an unfinished volume of papers on the machines, which was finally published in 1889 and is reissued here. The papers, by a variety of authors, were collected from journals including The Philosophical Magazine, The Edinburgh Review and Scientific Memoirs. They relate to the construction and potential application of Charles Babbage's calculating engines, notably the Difference Engine and the more complex Analytical Engine, which was to be programmed using punched cards. The book also includes correspondence with members of scientific societies, as well as proceedings, catalogues and drawings. Included is a complete catalogue of the drawings of the Analytical Engine.*

Babbage's Calculating Engines

<u>MIT Press (MA)</u> *These assembled papers discuss Babbage's Difference Engine, which he invented in 1821 to solve the practical problem of finding a means to reliably compute the many tables needed for navigation, and his Analytical Engine, which anticipated the logical conceptions of modern digital computers.*

Charles Babbage on the Principles and Development of the Calculator

And Other Seminal Writings

<u>Courier Corporation</u> *A brilliant 19th-century mathematician, Charles Babbage articulated the principles on which all modern computing machines are based. This compilation of his writings, in addition to those of several of his contemporaries, illuminates the work that led to the development of the calculator. Essential reference for anyone interested in the history of computing technology.*

The Makers Club

Starting Up! (Book 2)

<u>Difference Engine</u> *Childhood friends Aqilah and Yong Qiang have lost touch over the years. When they are unexpectedly reunited in Pangolin Secondary School, they discover that things are very different and life seems a lot more uncertain than it once was. Will they have the courage to start up a brand new school club and convince everyone, including themselves, they're ready for independence? Find out how the founding members of The Makers Club forged a friendship that would change their lives forever. • Invites kids to explore entrepreneurship, design thinking, and maker culture, with a diverse cast of characters who tackle real, honest issues in their friendships and personal growth. • This full-colour graphic novel includes bonus content that features inspiring interviews with entrepreneurs, discussion questions, and more! • Set in Southeast Asia, by creators from Southeast Asia.*

The Works of Charles Babbage

The difference engine and table making. 2

Science and Reform

Selected Works of Charles Babbage

Cambridge University Press *Charles Babbage was a key figure of a great era of British history. Best remembered for his pioneering Difference and Analytical Engines, forerunners of the modern computer, Babbage was also an active reformer of science and society.*

The Works of Charles Babbage

The difference engine and table making. Vol. 2

On The economy of machinery and manufactures

The Works of Charles Babbage

The difference engine and table making. Vol. 2

Charles Babbage

Pioneer of the Computer

Princeton University Press *This book discusses the career of Charles Babbage (1791-1871), British advocate of the systematic use of science in industry and creator of machines that were precursors of the modern computer. Babbage used his immense personal charm and vitality in an attempt to change the thinking of contemporary industrialists who had little use for the higher reaches of science. Shifting his own energies from pure mathematics, he planned engines that would "calculate by steam": the Difference Engines, designed to compute tables according to the method of finite differences, and the more complex Analytical Engines, forerunners of the modern computer. Almost forgotten and then rediscovered in the middle of the twentieth century, the Analytical Engines are among the great intellectual achievements of humankind. This biography of their polymathic inventor gives a convincing account of his tragic personal life and his important place in the history of science.*

The Works of Charles Babbage

The difference engine and table making

The Works of Charles Babbage II. The Difference Engine and Table Making

The Works

The difference engine and table making. 2

The Cogwheel Brain

Charles Babbage and the Quest to Build the First Computer

In 1821, 30-year-old inventor and mathematician Charles Babbage was poring over a set of printed mathematical tables with his friend, the astronomer John Herschel. Finding error after error in the manually evaluated results, Babbage made an exclamation, the consequences of which would not only dominate the remaining 50 years of his life, but also lay the foundations for the modern computer industry: 'I wish to God these calculations had been executed by steam!' A few days later, he set down a plan to build a machine that would carry out complex mathematical calculations without human intervention and, at least in theory, without human errors. The only technology to which he had access for solving the problem was the cogwheel escapement found inside clocks. Babbage saw that a machine constructed out of hundreds of escapements, cunningly and precisely linked, might be able to handle calculations mechanically. The story of his lifelong bid to construct such a machine is a triumph of human ingenuity, will and imagination.

Babbage's Calculating Engines

Being a Collection of Papers Relating to Them; Their History and Construction (Cambridge Library Collection. Mathematics)

The famous and prolific nineteenth-century mathematician, engineer and inventor Charles Babbage (1791-1871) was an early pioneer of computing. He planned several calculating machines, but none was built in his lifetime. On his death his youngest son, Henry P. Babbage, was charged with the task of completing an unfinished volume of papers on the machines, which was finally published in 1889 and is reissued here. The papers, by a variety of authors, were collected from journals including The Philosophical Magazine, The Edinburgh Review and Scientific Memoirs. They relate to the construction and potential application of Charles Babbage's calculating engines, notably the Difference Engine and the more complex Analytical Engine, which was to be programmed using punched cards. The book also includes correspondence with members of scientific societies, as well as proceedings, catalogues and drawings. Included is a complete catalogue of the drawings of the Analytical Engine.

Exposition of 1851

Or Views of the Industry, The Science and the Government of England

Routledge *First Published in 1968. Routledge is an imprint of Taylor & Francis, an informa company.*

The Anarchist Cookbook

Lulu.com *The Anarchist Cookbook will shock, it will disturb, it will provoke. It places in historical perspective an era when "Turn on, Burn down, Blow up" are revolutionary slogans of the day. Says the author" "This book... is not written for the members of fringe political groups, such as the Weatherman, or The Minutemen. Those radical groups don't need this book. They already know everything that's in here. If the real people of America, the silent majority, are going to survive, they must educate themselves. That is the purpose of this book." In what the author considers a survival guide, there is explicit information on the uses and effects of drugs, ranging from pot to heroin to peanuts. There i detailed advice concerning electronics, sabotage, and surveillance, with data on everything from bugs to scramblers. There is a comprehensive chapter on natural, non-lethal, and lethal weapons, running the gamut from cattle prods to sub-machine guns to bows and arrows.*

B C, Before Computers: On Information Technology from Writing to the Age of Digital Data

Open Book Publishers *I found it a delight to read. The author is not trying to write yet another book on the history of computer developments but rather to show that those developments rely on a long history of humans creating solutions to problems that arose as they became more and more sophisticated in their treatment of concepts of information and its manipulation. In many ways it resembles a work of philosophy more than a technical history, but relies on explaining that technical history to make his points. Michael R. Williams, Department of Computer Sciences, University of Calgary The idea that the digital age has revolutionized our day-to-day experience of the world is nothing new, and has been amply recognized by cultural historians. In contrast, Stephen Robertson's BC: Before Computers is a work which questions the idea that the mid-twentieth century saw a single moment of rupture. It is about all the things that we had to learn, invent, and understand – all the ways we had to evolve our thinking – before we could enter the information technology revolution of the second half of the twentieth century. Its focus ranges from the beginnings of data processing, right back to such originary forms of human technology as the development of writing systems, gathering a whole history of revolutionary moments in the development of information technologies into a single, although not linear narrative. Treading the line between philosophy and technical history, Robertson draws on his extensive technical knowledge to produce a text which is both thought-provoking and accessible to a wide range of readers. The book is wide in scope, exploring the development of technologies in such diverse areas as cryptography, visual art and music, and the postal system. Through all this, it does not simply aim to tell the story of computer developments but to show that those developments rely on a long history of humans creating technologies for increasingly sophisticated methods of manipulating information. Through a clear structure and engaging style, it brings together a wealth of informative and conceptual explorations into the history of human technologies, and avoids assumptions about any prior knowledge on the part of the reader. As such the expert and the general reader alike will find it of interest.*

Passages from the Life of a Philosopher

Cambridge University Press *An 1864 collection of essays by Charles Babbage, the inventor of 'calculating machines', about his life and times.*

The Makers Club

Game On! (Book 1)

<u>Difference Engine</u> *Timid artist Nadia is in awe of her new teammate. Priya's a gamer, she's smart, and she knows how to code—so this environmental video game they're building should definitely win the top prize at the Pangolin Secondary School Science Fair, right? But Nadia and Priya soon discover that there's a lot more to making a game than coding and sprites. Will they be able to overcome their differences or will it be game over for them far too soon?*

Georg Scheutz and the First Printing Calculator

Ada Lovelace

The Making of a Computer Scientist

Ada, Countess of Lovelace (1815-1852), daughter of romantic poet Lord Byron and his highly educated wife, Anne Isabella, is sometimes called the world's first computer programmer and has become an icon for women in technology. But how did a young woman in the nineteenth century, without access to formal school or university education, acquire the knowledge and expertise to become a pioneer of computer science?Although an unusual pursuit for women at the time, Ada Lovelace studied science and mathematics from a young age. This book uses previously unpublished archival material to explore her precocious childhood, from her ideas for a steam-powered flying horse to penetrating questions about the science of rainbows. A remarkable correspondence course with the eminent mathematician Augustus De Morgan shows her developing into a gifted, perceptive and knowledgeable mathematician. Active in Victorian London's social and scientific elite alongside Mary Somerville, Michael Faraday and Charles Dickens, Ada Lovelace became fascinated by the computing machines devised by Charles Babbage. The table of mathematical formulae sometimes called the 'first programme' occurs in her paper about his most ambitious invention, his unbuilt 'Analytical Engine'.Ada Lovelace died at just thirty-six, but her paper still strikes a chord to this day, with clear explanations of the principles of computing, and broader ideas on computer music and artificial intelligence now realised in modern digital computers. Featuring images of the 'first programme' and Lovelace's correspondence, alongside mathematical models, and contemporary illustrations, this book shows how Ada Lovelace, with astonishing prescience, explored key mathematical questions to understand the principles behind modern computing.

Current Perspectives in Feminist Media Studies

<u>Routledge</u> *Current Perspectives in Feminist Media Studies features contributions written by a diverse group of stellar feminist scholars from around the world. Each contributor has authored a brief, thought-provoking commentary on the current status and future directions of feminist media studies. Although contributors write about numerous, discrete subjects within the field of feminist media studies, their various ideas and concerns can be merged into six broad, overlapping subject areas that allow us to gain a strong sense of the expansive contours of current feminist communication scholarship and activism which the authors have identified as generally illustrative of the field. Specifically, authors encourage feminist media scholars to engage with issues of political economy, new ICTs and cybercultures as well as digital media policy, media and identity, sexuality and sexualisation, and postfeminism. They stress that feminist media scholars must broaden and deepen our theoretical frameworks and methodologies so as to provide a better sense of the conceptual complexities of feminist media studies and empirical realities of contemporary media forms, practices and audiences. This book was originally published as a special issue of Feminist Media Studies.*

Examples of the Solutions of Functional Equations

<u>Cambridge University Press</u> *Originally published in 1820, this is an early work by the renowned mathematician and inventor Charles Babbage (1791-1871). The text was written to provide mathematical students with an accessible introduction to functional equations, an area that had been previously absent from elementary mathematical literature. A short bibliography is also contained. This book will be of value to anyone with an interest in Babbage and the history of mathematics.*

Marvellous Mammals

A Wild A to Z of Southeast Asia

<u>Difference Engine</u> *We know that dogs bark, cats meow, and cows moo. But do you know dholes whistle "whee-whee", wild boars grunt "grrt-grrt", and siamangs call out "ooh-wow-wow"? The Southeast Asian forests are full of incredible wildlife waiting to be discovered. In the humid nature reserves of Singapore, high up the mountain forests of Papua, and in the tropical waters of the Irrawaddy, a multitude of mammals live their unseen lives. They await a bold explorer to learn their secrets. Could that explorer be you? In this beautifully illustrated alphabet book, wildlife ecologist Debby Ng and illustrator Darel Seow part the leaves to showcase lesser-known animals of Southeast Asia! Readers will learn about these unique mammals' habitat, behaviour, food choices, and their relationship with humans. • Discover the lesser known native mammals of Singapore and Southeast Asia with this beautifully illustrated alphabet book! • Quirky facts that will enthral children and adults alike – perfect for the animal nerd in you! • Researched and written by expert wildlife ecologist Debby Ng with art by well-known local illustrator Darel Seow*