



The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine

By Charles Petzold

[Download now](#)

[Read Online](#) 

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold

Programming Legend Charles Petzold unlocks the secrets of the extraordinary and prescient 1936 paper by Alan M. Turing

Mathematician Alan Turing invented an imaginary computer known as the Turing Machine; in an age before computers, he explored the concept of what it meant to be *computable*, creating the field of computability theory in the process, a foundation of present-day computer programming.

The book expands Turing's original 36-page paper with additional background chapters and extensive annotations; the author elaborates on and clarifies many of Turing's statements, making the original difficult-to-read document accessible to present day programmers, computer science majors, math geeks, and others.

Interwoven into the narrative are the highlights of Turing's own life: his years at Cambridge and Princeton, his secret work in cryptanalysis during World War II, his involvement in seminal computer projects, his speculations about artificial intelligence, his arrest and prosecution for the crime of "gross indecency," and his early death by apparent suicide at the age of 41.

 [Download The Annotated Turing: A Guided Tour Through Alan T...pdf](#)

 [Read Online The Annotated Turing: A Guided Tour Through Alan T...pdf](#)

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine

By Charles Petzold

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold

Programming Legend Charles Petzold unlocks the secrets of the extraordinary and prescient 1936 paper by Alan M. Turing

Mathematician Alan Turing invented an imaginary computer known as the Turing Machine; in an age before computers, he explored the concept of what it meant to be *computable*, creating the field of computability theory in the process, a foundation of present-day computer programming.

The book expands Turing's original 36-page paper with additional background chapters and extensive annotations; the author elaborates on and clarifies many of Turing's statements, making the original difficult-to-read document accessible to present day programmers, computer science majors, math geeks, and others.

Interwoven into the narrative are the highlights of Turing's own life: his years at Cambridge and Princeton, his secret work in cryptanalysis during World War II, his involvement in seminal computer projects, his speculations about artificial intelligence, his arrest and prosecution for the crime of "gross indecency," and his early death by apparent suicide at the age of 41.

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold **Bibliography**

- Sales Rank: #106431 in Books
- Brand: Petzold, Charles
- Published on: 2008-06-16
- Original language: English
- Number of items: 1
- Dimensions: 8.80" h x 1.20" w x 6.00" l, .98 pounds
- Binding: Paperback
- 384 pages



[Download The Annotated Turing: A Guided Tour Through Alan T ...pdf](#)



[Read Online The Annotated Turing: A Guided Tour Through Alan ...pdf](#)

Download and Read Free Online The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold

Editorial Review

From the Back Cover

Before digital computers ever existed, Alan Turing envisioned their power and versatility...but also proved what computers could never do.

In an extraordinary and ultimately tragic life that unfolded like a novel, Turing helped break the German Enigma code to turn the tide of World War II, later speculated on artificial intelligence, fell victim to the homophobic witchhunts of the early 1950s, and committed suicide at the age of 41. Yet Turing is most famous for an eerily prescient 1936 paper in which he invented an imaginary computing machine, explored its capabilities and intrinsic limitations, and established the foundations of modern-day programming and computability.

This absorbing book expands Turing's now legendary 36-page paper with extensive annotations, fascinating historical context, and page-turning glimpses into his private life. From his use of binary numbers to his exploration of concepts that today's programmers will recognize as RISC processing, subroutines, algorithms, and others, Turing foresaw the future and helped to mold it. In our post-Turing world, everything is a Turing Machine — from the most sophisticated computers we can build, to the hardly algorithmic processes of the human mind, to the information-laden universe in which we live.

About the Author

English mathematician **Alan Turing** (1912–1954) is the author of the 1936 paper "On Computable Numbers, with an Application to the Entscheidungsproblem" that introduced the imaginary computer called the Turing Machine for understanding the nature and limitations of computing. His famous 1950 article "Computing Machinery and Intelligence" introduced the Turing Test for gauging artificial intelligence.

American writer **Charles Petzold** (1953–) is the author of the acclaimed 1999 book *Code: The Hidden Language of Computer Hardware and Software*, a unique exploration into the digital technologies of computers. He is also the author of hundreds of articles about computer programming, as well as several books on writing programs that run under Microsoft Windows. His Web site is www.charlespetzold.com.

Users Review

From reader reviews:

Debbie Luken:

Here thing why that The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine are different and dependable to be yours. First of all examining a book is good but it depends in the content from it which is the content is as scrumptious as food or not. The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine giving you information deeper and different ways, you can find any book out there but there is no publication that similar with The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine. It gives you thrill looking at journey, its open up your own eyes about the thing which happened in the world which is probably can be happened around you. You can

actually bring everywhere like in park, café, or even in your way home by train. If you are having difficulties in bringing the printed book maybe the form of The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine in e-book can be your choice.

Michael Quintanar:

Spent a free time for you to be fun activity to accomplish! A lot of people spent their spare time with their family, or their particular friends. Usually they doing activity like watching television, likely to beach, or picnic inside the park. They actually doing same thing every week. Do you feel it? Do you wish to something different to fill your personal free time/ holiday? Can be reading a book may be option to fill your cost-free time/ holiday. The first thing that you'll ask may be what kinds of book that you should read. If you want to attempt look for book, may be the book untitled The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine can be fine book to read. May be it can be best activity to you.

Virginia Berry:

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine can be one of your basic books that are good idea. All of us recommend that straight away because this publication has good vocabulary that may increase your knowledge in language, easy to understand, bit entertaining but nonetheless delivering the information. The writer giving his/her effort to set every word into satisfaction arrangement in writing The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine although doesn't forget the main place, giving the reader the hottest and also based confirm resource info that maybe you can be among it. This great information may draw you into completely new stage of crucial imagining.

Ron Matthies:

This The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine is new way for you who has attention to look for some information given it relief your hunger of information. Getting deeper you in it getting knowledge more you know or else you who still having bit of digest in reading this The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine can be the light food for you personally because the information inside this particular book is easy to get by means of anyone. These books build itself in the form and that is reachable by anyone, sure I mean in the e-book application form. People who think that in e-book form make them feel drowsy even dizzy this reserve is the answer. So you cannot find any in reading a book especially this one. You can find actually looking for. It should be here for a person. So , don't miss the item! Just read this e-book sort for your better life and knowledge.

Download and Read Online The Annotated Turing: A Guided Tour

**Through Alan Turing's Historic Paper on Computability and the
Turing Machine By Charles Petzold #5JO9GQIV4ZD**

Read The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold for online ebook

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold books to read online.

Online The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold ebook PDF download

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold Doc

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold MobiPocket

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold EPub

5JO9GQIV4ZD: The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine By Charles Petzold