



# The Innovators: The Engineering Pioneers who Transformed America

By David P. Billington

Download now

Read Online 

**The Innovators: The Engineering Pioneers who Transformed America** By David P. Billington

A richly illustrated introduction to the engineering triumphs that made America modern

In this age of microchips and deep space probes, it's hard to imagine life before electricity or passenger trains. An astonishing series of engineering innovations paved the way to the twentieth century, and transformed America into the world's mightiest industrial power. *The Innovators* tells the exciting story of the engineering pioneers whose discoveries so dramatically altered commerce, industry, and world history. The book takes readers into the workshops of America's early engineering geniuses, explaining how they came up with their ideas and later applied them in the marketplace. Devotees of history and technology will appreciate the finely drawn profiles of America's technical wizards, from the famous--including Robert Fulton, the inventor of the steamboat; Samuel F.B. Morse, the inventor of the telegraph; and Thomas Edison, inventor of the first electrical power network--to the lesser known, such as J. Edgar Thompson, who built the Pennsylvania Railroad.

- \* From the author of the critically acclaimed *The Tower and the Bridge*
- \* Features over 80 illustrations of the engineers and their inventions

DAVID P. BILLINGTON (Princeton, New Jersey), a professor of civil engineering at Princeton University, is the author of *The Tower and the Bridge*, and *Robert Maillart's Bridges: The Art of Engineering*, which won the 1979 Dexter Prize as the outstanding book on the history of technology.

 [Download The Innovators: The Engineering Pioneers who Trans ...pdf](#)

 [Read Online The Innovators: The Engineering Pioneers who Tra ...pdf](#)



# The Innovators: The Engineering Pioneers who Transformed America

*By David P. Billington*

**The Innovators: The Engineering Pioneers who Transformed America** By David P. Billington

A richly illustrated introduction to the engineering triumphs that made America modern

In this age of microchips and deep space probes, it's hard to imagine life before electricity or passenger trains. An astonishing series of engineering innovations paved the way to the twentieth century, and transformed America into the world's mightiest industrial power. *The Innovators* tells the exciting story of the engineering pioneers whose discoveries so dramatically altered commerce, industry, and world history. The book takes readers into the workshops of America's early engineering geniuses, explaining how they came up with their ideas and later applied them in the marketplace. Devotees of history and technology will appreciate the finely drawn profiles of America's technical wizards, from the famous--including Robert Fulton, the inventor of the steamboat; Samuel F.B. Morse, the inventor of the telegraph; and Thomas Edison, inventor of the first electrical power network--to the lesser known, such as J. Edgar Thompson, who built the Pennsylvania Railroad.

\* From the author of the critically acclaimed *The Tower and the Bridge*

\* Features over 80 illustrations of the engineers and their inventions

DAVID P. BILLINGTON (Princeton, New Jersey), a professor of civil engineering at Princeton University, is the author of *The Tower and the Bridge*, and Robert Maillart's *Bridges: The Art of Engineering*, which won the 1979 Dexter Prize as the outstanding book on the history of technology.

## **The Innovators: The Engineering Pioneers who Transformed America** By David P. Billington **Bibliography**

- Sales Rank: #1293997 in Books
- Published on: 1996-06-05
- Original language: English
- Number of items: 1
- Dimensions: 9.27" h x .70" w x 6.16" l, .85 pounds
- Binding: Paperback
- 272 pages

 [Download The Innovators: The Engineering Pioneers who Trans ...pdf](#)

 [Read Online The Innovators: The Engineering Pioneers who Tra ...pdf](#)



## **Download and Read Free Online The Innovators: The Engineering Pioneers who Transformed America By David P. Billington**

---

### **Editorial Review**

#### Amazon.com Review

In a world rocked constantly by an almost overwhelming string of technological wonders, it's easy to lose sight of the 18th- and 19th-century engineering breakthroughs that set the stage for today's scientific and electronic advances. In **The Innovators: The Engineering Pioneers Who Made America Modern**, David P. Billington presents a series of intriguing profiles of such pacesetters as Robert Fulton, Thomas Edison, and Samuel Morse, whose inventions are responsible for so many of the developments we currently enjoy.

#### From the Publisher

Written from an engineering perspective, this fascinating book emphasizes the innovations that were truly basic to U.S. industrialization. The author uses a three-sided view to describe American engineering history: what great engineers actually did, the political and economic conditions within which they worked, and the influence that these designers and their achievements had on the nation. Billington explores the scientific basis of engineering through elementary formulas that also include the social issues of regulated loads, visually striking forms, acceptable risks, environmental issues, and the production of wealth.

#### From the Inside Flap

The Innovators They built the future. Their ingenuity, their vision, their genius propelled a young nation toward the twentieth century, and paved the way for America's emergence as the world's leading industrial power. The Innovators tells the impressive story of the engineering pioneers whose designs revolutionized commerce, industry, and world history. Enter the workshops of America's early engineering geniuses and discover how they came up with their ideas and applied them to the marketplace. David Billington, acclaimed author of *The Tower and the Bridge*, reveals the strokes of brilliance behind such landmark developments as the steamboat, electric power, and the rise of the iron and steel industry. He explains each major innovation through the story of the remarkable new engineering formulas that made it possible, showing that one key to engineering progress is the discovery of fundamental relationships in the physical world. He also explores the political and social conditions that allowed these brilliant individuals to implement their ideas, and the sweeping changes that followed in their wake. Who were the innovators? Some are legendary: Robert Fulton, inventor of the steamboat; Samuel Morse, inventor of the telegraph; and Thomas Edison, inventor of the incandescent lightbulb. Others are not as well known, however, and readers will be introduced to many whose contributions, if not their names, have stood the test of time: people like J. Edgar Thompson, who built the Pennsylvania Railroad; and Thomas Telford, who revolutionized large-scale bridge building and design. In the age of microchips and space probes, *The Innovators* brings insight and perspective to America's engineering history.

### **Users Review**

#### **From reader reviews:**

#### **Terry Hayes:**

Book is to be different per grade. Book for children till adult are different content. As we know that book is very important normally. The book *The Innovators: The Engineering Pioneers who Transformed America* ended up being making you to know about other know-how and of course you can take more information. It is extremely advantages for you. The reserve *The Innovators: The Engineering Pioneers who Transformed*

America is not only giving you considerably more new information but also to be your friend when you truly feel bored. You can spend your own personal spend time to read your publication. Try to make relationship with the book *The Innovators: The Engineering Pioneers who Transformed America*. You never experience lose out for everything in case you read some books.

**Jesus Puga:**

Reading a book tends to be new life style in this particular era globalization. With reading you can get a lot of information that can give you benefit in your life. With book everyone in this world could share their idea. Books can also inspire a lot of people. Lots of author can inspire their very own reader with their story or maybe their experience. Not only the story that share in the ebooks. But also they write about the information about something that you need example. How to get the good score toefl, or how to teach children, there are many kinds of book that exist now. The authors nowadays always try to improve their proficiency in writing, they also doing some investigation before they write for their book. One of them is this *The Innovators: The Engineering Pioneers who Transformed America*.

**Vickie Miller:**

Spent a free time to be fun activity to perform! A lot of people spent their leisure time with their family, or their very own friends. Usually they carrying out activity like watching television, likely to beach, or picnic in the park. They actually doing same every week. Do you feel it? Do you wish to something different to fill your own free time/ holiday? Can be reading a book might be option to fill your cost-free time/ holiday. The first thing you will ask may be what kinds of e-book that you should read. If you want to test look for book, may be the publication untitled *The Innovators: The Engineering Pioneers who Transformed America* can be great book to read. May be it is usually best activity to you.

**Esther Tackett:**

Precisely why? Because this *The Innovators: The Engineering Pioneers who Transformed America* is an unordinary book that the inside of the e-book waiting for you to snap it but latter it will shock you with the secret that inside. Reading this book close to it was fantastic author who also write the book in such awesome way makes the content within easier to understand, entertaining method but still convey the meaning entirely. So , it is good for you for not hesitating having this any longer or you going to regret it. This unique book will give you a lot of benefits than the other book possess such as help improving your expertise and your critical thinking approach. So , still want to hold off having that book? If I have been you I will go to the publication store hurriedly.

**Download and Read Online *The Innovators: The Engineering Pioneers who Transformed America* By David P. Billington**

**#M0KODJ1CY4T**

## **Read The Innovators: The Engineering Pioneers who Transformed America By David P. Billington for online ebook**

The Innovators: The Engineering Pioneers who Transformed America By David P. Billington 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 Innovators: The Engineering Pioneers who Transformed America By David P. Billington books to read online.

### **Online The Innovators: The Engineering Pioneers who Transformed America By David P. Billington ebook PDF download**

**The Innovators: The Engineering Pioneers who Transformed America By David P. Billington Doc**

**The Innovators: The Engineering Pioneers who Transformed America By David P. Billington Mobipocket**

**The Innovators: The Engineering Pioneers who Transformed America By David P. Billington EPub**

**M0KODJ1CY4T: The Innovators: The Engineering Pioneers who Transformed America By David P. Billington**