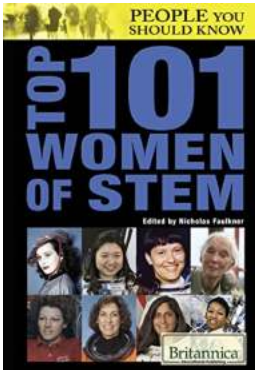


# Meet the Extraordinary Women Shaping the World of STEM – Top 101 You Must Know!

Are you intrigued by the world of science, technology, engineering, and mathematics? Look no further! In this article, we present a comprehensive list of the top 101 women in STEM (Science, Technology, Engineering, and Mathematics) you should know about. These remarkable women have made significant contributions to fields such as medicine, computer science, biology, and more. Whether you are a student, a professional, or simply curious about their stories, join us as we celebrate their accomplishments and learn from their inspiring journeys!

## 1. Marie Curie



## Top 101 Women of STEM (People You Should Know) by Rachel A. Koestler-Grack (Kindle Edition)

★★★★☆ 4 out of 5

Language : English  
File size : 6114 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 251 pages



## 2. Ada Lovelace

# ADA LOVELACE

## FIRST COMPUTER PROGRAMMER

### The Analytical Engine

Lovelace's program turned a complex formula into simple calculations that could be executed on punched cards and fed into Charles Babbage's Analytical Engine, a mechanical computer that he designed but never built. She published it in 1843, a century before the modern computer age.

*"I never to put in anything about Babbage's Number, in one of my Notes, as an example of how an explicit function may be worked out by the engine, without having been worked out by human hand and head first."*



$$e^x - 1 = \frac{x}{1 + \frac{x}{2} + \frac{x^2}{2 \cdot 3} + \frac{x^3}{2 \cdot 3 \cdot 4} + \dots}$$

### A Universal Computer

Lovelace did more than write the first computer program. She was also the first person to realize that a general purpose computer could do anything, given the right data and instructions.

*"The Analytical Engine weaves algebraic patterns just as the Jacquard loom weaves flowers and leaves."*

*"Supposing, for instance, that the fundamental relations of pitched sounds in the science of harmony and of musical composition were susceptible of such expression and adaptation, the engine might compose elaborate and scientific pieces of music of any degree of complexity or extent."*



**Augusta Ada King,  
Countess of Lovelace  
Born: 10 December 1815  
Died: 27 November 1852**



### 3. Rosalind Franklin

# TODAY IN CHEMISTRY HISTORY

25<sup>TH</sup> JULY - ROSALIND FRANKLIN'S BIRTHDAY



ROSALIND FRANKLIN

BORN

25 July 1920

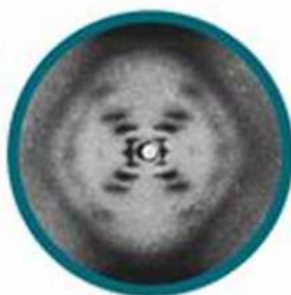
DIED

16 April 1958

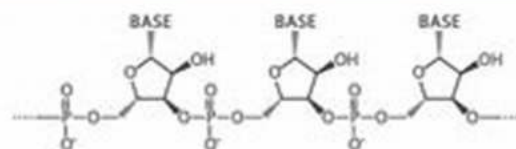


Rosalind Franklin was a chemist and X-ray crystallographer whose work was instrumental in the discovery of the structure of DNA. She missed out on a Nobel Prize for her work as they are not awarded posthumously.

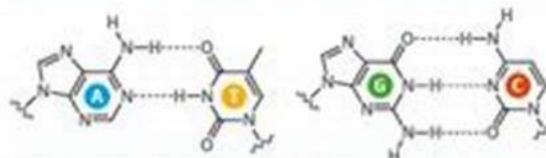
## PHOTOGRAPH 51 AND THE STRUCTURE OF DNA



Photograph 51 is an X-ray diffraction image of DNA taken during Franklin's research. It was crucial in developing a model of DNA and confirming its double helical structure.



DNA is a polymer made up from monomers called nucleotides. A sugar phosphate backbone (above) forms the two strands, which are held together by hydrogen bonds between the bases found on these strands (below).



ADENINE (A) & THYMINE (T)

GUANINE (G) & CYTOSINE (C)



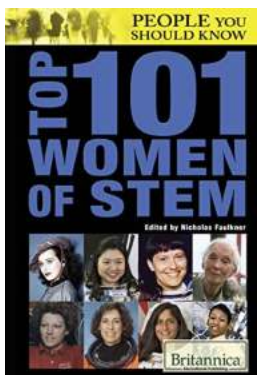
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## 4. Katherine Johnson



Remember, these are just a few of the remarkable women who have paved the way in the world of STEM. There are countless others who deserve recognition for their contributions. By acknowledging their achievements and promoting equality in STEM fields, we create a more inclusive and diverse future. So, stay inspired, keep learning, and join the movement towards a better tomorrow!



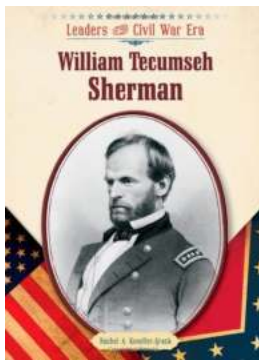
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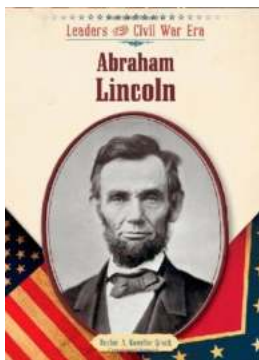


This extensive and insightful text introduces readers to an eclectic mix of women who have excelled in all areas of science, technology, engineering, and math. Some of the figures are less well known than others, but all are highly accomplished and inspirational in their fields. This book offers biographies of astronauts, naturalists, zoologists, and astronomers, among many others. Any reader will be proud of the great pioneering work these women have done in their fields and be inspired to pursue such achievements on their own.



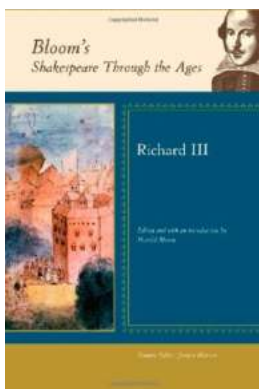
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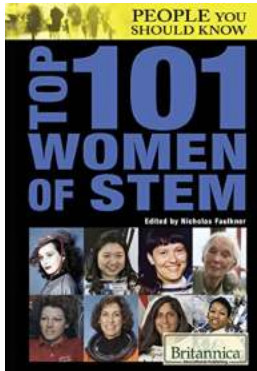
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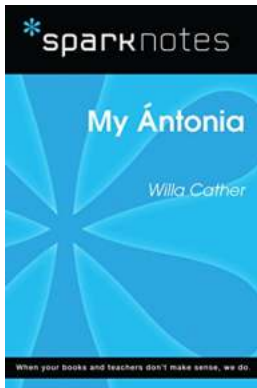
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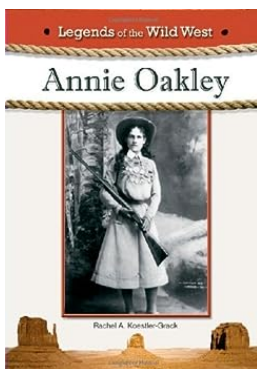
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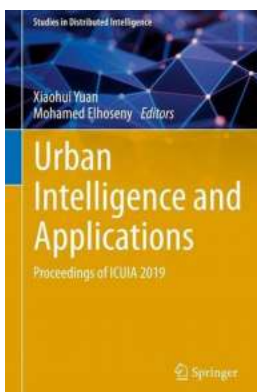
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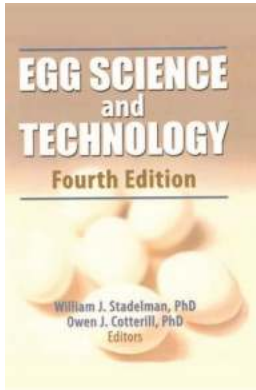
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