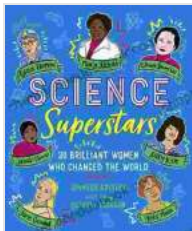


Science Superstars: 30 Brilliant Women Who Changed the World





Science Superstars: 30 Brilliant Women Who Changed the World by Jennifer Calvert

★★★★★ 5 out of 5

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Throughout history, women have made significant contributions to the field of science, despite facing numerous obstacles and discrimination. From

ancient astronomers to modern-day pioneers, these women have shattered glass ceilings, revolutionized fields, and left an indelible mark on the world.

Here are 30 brilliant women scientists who have changed the world:

1. **Marie Curie** (1867-1934)

- Renowned physicist and chemist
- Pioneered research on radioactivity
- Discovered two elements, polonium and radium
- Awarded the Nobel Prize in Chemistry in 1911

2. **Jane Goodall** (1934-present)

- Renowned primatologist
- Conducted groundbreaking observational studies on chimpanzees in their natural habitat
- Revolutionized our understanding of animal behavior and conservation
- Established the Jane Goodall Institute, a global organization dedicated to wildlife protection and conservation

3. **Rosalind Franklin** (1920-1958)

- British chemist and X-ray crystallographer
- Made crucial contributions to understanding the structure of DNA

- Her X-ray diffraction images were instrumental in Watson and Crick's discovery of the double helix

4. **Barbara McClintock** (1902-1992)

- American geneticist
- Discovered transposons, or "jumping genes"
- Won the Nobel Prize in Physiology or Medicine in 1983 for her pioneering work in genetics

5. **Lise Meitner** (1878-1968)

- Austrian physicist
- Co-discovered nuclear fission
- Her contributions to nuclear physics paved the way for the development of nuclear power and atomic bombs

6. **Jocelyn Bell Burnell** (1943-present)

- British astrophysicist
- Discovered pulsars, rapidly rotating neutron stars
- Won the Nobel Prize in Physics in 1974 for her discovery

7. **Rita Levi-Montalcini** (1909-2012)

- Italian neurologist
- Discovered nerve growth factor (NGF)

- Won the Nobel Prize in Physiology or Medicine in 1986 for her work on the nervous system

8. **Mae Jemison** (1956-present)

- American astronaut
- First African American woman to travel into space
- Served as a mission specialist on the Space Shuttle Endeavour in 1992
- Currently serves as a principal investigator for NASA's Advanced Exploration Systems Division

9. **Katherine Johnson** (1918-2020)

- American mathematician
- Worked as a "computer" at NASA
- Performed complex calculations that were crucial for the success of early space missions, including the Apollo 11 moon landing
- Received the Presidential Medal of Freedom in 2015

10. **Emmy Noether** (1882-1935)

- German mathematician
- Made fundamental contributions to abstract algebra and theoretical physics
- Her work laid the groundwork for modern algebra and quantum mechanics

11. **Grace Hopper** (1906-1992)

- American computer scientist
- Pioneered the development of the first compiler for a programming language
- Developed the COBOL programming language
- Considered one of the pioneers of computer science

12. **Chien-Shiung Wu** (1912-1997)

- Chinese-American experimental physicist
- Disproved the law of parity
- Her work led to a fundamental understanding of the nature of fundamental forces
- Known as the "First Lady of Physics"

13. **Rosalyn Yalow** (1921-2011)

- American physicist and medical doctor
- Developed the radioimmunoassay (RIA)
- Revolutionized the field of medicine by enabling the accurate measurement of hormones and other substances in the blood
- Won the Nobel Prize in Physiology or Medicine in 1977 for her work

14. **Elizabeth Blackwell** (1821-1910)

- American physician
- First woman to graduate from medical school in the United States
- Established the New York Infirmary for Women and Children
- Pioneered the education of women in medicine

15. **Maria Mitchell** (1818-1889)

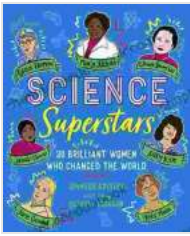
- American astronomer
- Discovered a comet in 1847, becoming the first American woman to make such a discovery
- Served as a professor of astronomy at Vassar College
- Promoted the education of women in astronomy

16. **Ann Makosinski** (1997-present)

- Canadian inventor and engineer
- Developed the Hollow Flashlight, a flashlight that generates electricity from the heat of the user's hand
- Won the Google Science Fair in 2013 for her invention
- Currently works on developing sustainable energy solutions

17. **Emmanuelle Charpentier** (1968-present)

- French microbiologist
- Co



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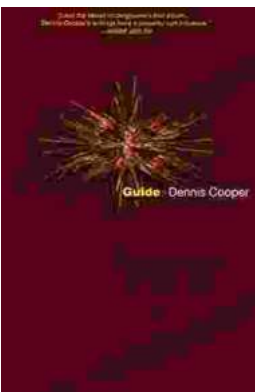
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