The history of wireless technology



1985

FCC opens the 900 MHz, 2.4 GHz and 5 GHz bands

1997

IEEE codifies the first 802.11 wireless standard, which supports speeds of 2 Mbps.

1999

802.11a offers up to 54 Mbps in the 5-GHz band
802.11b offers 11 Mbps in the 2-4 GHz band

 Vendors form Wireless Ethernet Compatibility Alliance OFECA)

2003

802.11g introduces speeds of 22 Mtgs in 2.4 GHz band

2009 to early 2010s

4G and 4G LTE offer high cellular speeds and grow more popular

2017

3GPP approves its Release 15 package, which introduces 5G

20/10

862.11ax boosts efficiency and supports more devices

292

IEEE expects to release 802.13be, which will operate in 2.4 GHz, 5 GHz and 6 GHz bands

200

66 expected to launch

19th contury

Radio telegraphy enables the transmission of data over radio waves. (Photo of Gugliemo Marconi, who sent the world's first radio message across open water on May 13, 1897)

1963

Institute of Electrical and Electronics Engineers OEED forms

1971

ALOHAnet uses ultra high frequency signals in the 400 MHz band to broadcast data packets

1991

Cellular shifts from analog first-generation cellular to 20 digital services

1998

3rd Generation Partnership Project (3GPP) forms to create specifications for 3G

Early 2000s

3G use increases with the popularity of smartphones.

2002

WECA changes its name to Wi-R Alliance

2009

862.11n uses both the 2.4 GHz and 5 GHz bands and introduces multiple input, multiple output (MMMO)

2013

862.13ac brings speeds up to 1 Gbps and introduces multi-user MIMO



History Of Wireless History Of Wireless

John Joseph Fahie

History Of Wireless History Of Wireless:

A Brief History of Everything Wireless Petri Launiainen, 2018-06-06 Since the discovery of electromagnetic waves less than 150 years ago the application of wireless communications technology has not only revolutionized our daily lives but also fundamentally changed the course of world history A Brief History of Everything Wireless charts the fascinating story of wireless communications The book leads the reader on an intriguing journey of personal triumphs and stinging defeats relating the prominent events individuals and companies involved in each progressive leap in technology with a particular focus on the phenomenal impact of each new invention on society Beginning at the early days of spark gap transmitters this tale touches on the emergence of radio and television broadcasting as well as radio navigation and radar before moving on to the rise of satellite near field and light based communications Finally the development of wireless home networks and the explosive growth of modern cellular technologies are revealed complete with a captivating account of their corresponding company histories and behind the scenes battles over standards For those wishing to peek behind the magic curtain of friendly user interfaces and clever engineering and delve further into various processes underlying the ubiquitous technology we depend upon yet take for granted the book also contains special TechTalk chapters that explain the theoretical basics in Wireless Radio Lewis Coe, 2006-02-22 In 1873 Scottish physicist James Clerk Maxwell first advanced the an intuitive way idea that there might be electromagnetic waves that were similar to light waves a startling concept to the scientists of his day About 13 years later German physicist Heinrich Hertz demonstrated in his laboratory that electromagnetic radiation did indeed exist But it was not until after Hertz's death that a young Italian named Guglielmo Marconi got the idea for a practical communications system based on Hertz's work Marconi was surprised and disappointed that the Italian government was not interested in his newly discovered wireless communications system and thus he took his equipment to England From that point on the wireless became identified with Britain From these beginnings wireless radio became the basis of a revolution that has resulted in the satellite communications of today This history first looks at Marconi s invention and then explores its many applications including marine radio cellular telephones police and military uses television and radar Radio collecting is also discussed and brief biographies are provided for the major figures in the development and use of the wireless

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Maxwell's History and Wireless Telegraphy Frederick King Poincaré, 2023-07-18 This classic work offers a comprehensive history of wireless communication Drawing on his deep knowledge of physics and mathematics the author provides a detailed

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