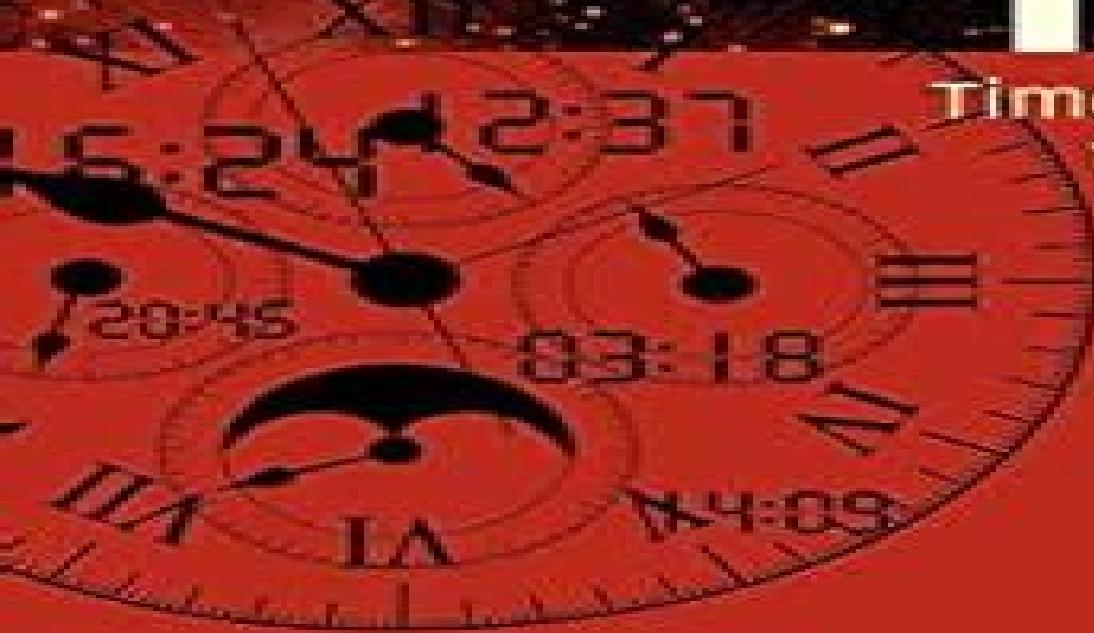


# The Measurement of **TIME**

Time, Frequency and  
the Atomic Clock



**Claude Audoin &  
Bernard Guinot**

CAMBRIDGE

# The Measurement Of Time Time Frequency And The Atomic Clock

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*Measuring Time* Masatoshi Kajita, 2018 In this fascinating book Masatoshi Kajita recounts the importance of precise measurements and their inherent uncertainty before telling the story of humankind's efforts to define and measure time with increasing accuracy culminating in the development of atomic clocks. These improvements in the accurate measurement of time and frequency have played a pivotal role in the development of modern science including the confirmation of Einstein's Theory of Relativity and the recent detection of gravity waves. Furthermore such measurements afforded by atomic clocks and other mechanisms are being used to examine key questions about the very fundamentals of our universe the possibility of symmetry violation and even testing the idea that there may be variation of the fundamental constants themselves over time

**From Sundials to Atomic Clocks** James Jespersen, Jane Fitz-Randolph, 1999-01-01 Clear and accessible introduction to the concept of time examines measurement historic timekeeping methods uses of time information role of time in science and technology and much more Over 300 illustrations *Catalog of National Bureau of Standards Publications, 1966-1976* United States. National Bureau of Standards. Technical Information and Publications

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