



Radiocarbon After Four Decades

By Taylor, R. E. / Long, Austin

Book Condition: New. Publisher/Verlag: Springer, Berlin | An Interdisciplinary Perspective | Radiocarbon After Four Decades: An Interdisciplinary Perspective commemorates the 40th anniversary of radiocarbon dating. The volume presents discussions of every aspect of this dating technique, as well as chronicles of its development and views of future advancements and applications. All of the 64 authors played major roles in establishment, development or application of this revolutionary scientific tool. The 35 chapters provide a solid foundation in the essential topics of radiocarbon dating: Historical Perspectives; The Natural Carbon Cycle; Instrumentation and Sample Preparation; Hydrology; Old World Archaeology; New World Archaeology; Earth Sciences; and Biomedical Applications. | Historical Perspectives.- 1. The Early Years With Libby at Chicago: A Retrospective.- 2. The Early Radiocarbon Years: Personal Reflections.- The Natural Carbon Cycle.- 3. Calibration of the Radiocarbon Time Scale, 2500-5000 BC.- 4. The History of Dendrochronology and Radiocarbon Calibration.- 5. The Present Status of Understanding of the Long-Period Spectrum of Radiocarbon.- 6. Glacial-to-Interglacial Changes in Ocean Circulation.- 7. Reconstruction of Radiocarbon Distribution in the Glacial Ocean.- 8. Radiocarbon Fluctuations and the Geomagnetic Field.- 9. Solar Forcing of Global Climate Change?.- 10. Radiocarbon and Astrophysical-Geophysical Phenomena.- 11. Cosmogenic In Situ Radiocarbon on the Earth.- Instrumentation...



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