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| Autore | Cooke, N.M. |
| Titolo | Electronics & Nucleonics Dictionary / N.M. Cooke, J. Marcus |
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| Autore | Gonzalo Julio A (Julio Antonio) |
| Titolo | The intelligible universe : an overview of the last thirteen billion years /
/ Julio A. Gonzalo |
| Pubbl/distr/stampa | Singapore ; ; Hackensack, NJ, : World Scientific Pub. Co., c2008 |
| ISBN | 981-279-412-3 |
| Edizione | [2nd ed.] |
| Descrizione fisica | 1 online resource (368 p.) |
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| Soggetti | Cosmology
Astrophysics
Cosmic physics
Cosmic background radiation
Big bang theory
Intelligent design (Teleology) |
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His Universe; 1.1 Einstein's Eternal Mystery; 1.2 From Antiquity to the XVI Century; 1.3 From Galileo and Newton to Kirchhoff; 1.4 The XX Century; Bibliography; 2. The Importance of Precision; 2.1 The Last Word in Physics; 2.2 Precise Astronomical Observations; 2.3 The New Generation of Telescopes; Bibliography; 3. Masses, Distances and Times in the Universe; 3.1 Masses; 3.2 Distances; 3.3 Times; Bibliography; 4. Relativistic Cosmology
 4.1 Relativity, Special and General 4.2 The Cosmological Dynamic Equations; 4.3 The Matter Dominated and the Radiation Dominated Eras; 4.4 The Cosmic Baryon to Photon Ratio; Bibliography; 5. The Fundamental Physical Forces in the Universe; 5.1 Gravitational, Electromagnetic and Nuclear Forces; 5.2 Conservation Laws; 5.3 Elementary Particles; 5.4 Universal Constants; 5.5 Understanding the Universe, and Open-Ended Process; Bibliography; 6. Cosmology and Transcendence; 6.1 Towards the Confines of the Universe; 6.2 Observable Data and Big Bang Model
 6.2.1 Approximately isotropic distribution of galaxies in space 6.2.2 Universal recession of the galaxies; 6.2.3 Relative abundance of 4He and other primordial light elements; 6.2.4 Cosmic background radiation; 6.3 Implications of Contemporary Cosmology; 6.4 The Physical Universe and Its Creator; 6.5 God and the Scientists; Bibliography; The Cosmic Background Radiation (El Escorial 1993); 7. The COBE Project, by John C. Mather; 8. COBE Observations of the Early Universe, by George F. Smoot; 8.1 Introduction; 8.2 COBE Mission; 8.3 DMR Instrument; 8.4 DMR Limits on Potential Systematic 8.5 DMR Observations 8.6 DMR Result Discussion; 8.7 DIRBE Measurements; 8.8 FIRAS Instruments Descriptions; 8.9 FIRAS Measurements; 8.10. FIRAS Interpretation; 8.11 Summary; Bibliography; The Last Thirteen Billion Years... (Krakow, 1998/Madrid, 2002); 9. Unexpected Coincidence between Decoupling and Atom Formation Times; 9.1 Introduction; 9.2 Radiation/Matter Equality Temperature; 9.3 Atom Formation; 9.4 Concluding Remarks; Bibliography; 10. An Amazing Story: From the Cave Man to the Apollo Mission; Bibliography; 11. From the Big Bang to the Present; Bibliography
 12. Astrophysical Cosmology Around Year 2000 AC 12.1 The COBE Project; 12.2 The Hubble Space Telescope; 12.3 The Spacial Mission Hipparcos; Bibliography; The Microwave Anisotropy Probe (Singapore/Madrid, 2005); 13. The Report of the WMAP's First Year Observation in the NY Times: 02/12/2003; Bibliography; The Medieval Roots of Contemporary Science (Oviedo, 2007); 14. Why Not in China?; 14.1 Why Not in China; 14.2 Early Medieval "Natural Philosophers"; Bibliography; 15. Tomas Aquinas and Roger Bacon; 15.1 Tomas Aquinas and the Ways to God; 15.2 Roger Bacon and the Experimental Method
 Bibliography

Sommario/riassunto

This interesting book reviews WMAP's main results (2003) and discusses in detail how the accurate qualitative results for the "age" of the universe and the Hubble constant were anticipated in an article published five years before in Acta Cosmologica, Krakow. In the final chapter on "Cosmic Numbers", it is shown that, as a result of the coincidence at decoupling time between atom formation and matter/radiation equality, a reasonable cosmic justification for the mass ratio of protons and electrons is obtained.
