Record Nr. UNINA9910451284303321 Autore Gonzalo Julio A (Julio Antonio) Titolo Inflationary cosmology revisited [[electronic resource]]: an overview of contemporary scientific cosmology after the inflationary proposal // Julio A. Gonzalo Singapore; ; Hackensack, NJ, : World Scientific, c2005 Pubbl/distr/stampa **ISBN** 1-281-89698-5 9786611896980 981-270-123-0 Descrizione fisica 1 online resource (120 p.) Disciplina 523.1 Soggetti Inflationary universe Cosmology Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Foreword; Prologue; Contents; Chapter 1 Steady State versus Big Bang Cosmology; Chapter 2 The Microwave CBR; Chapter 3 The Birth of Inflationary Cosmology; Chapter 4 The Cosmic Background Explorer (COBE); Chapter 5 Dark Matter, Cosmic Flatness & Accelerated Expansion: Chapter 6 The Microwave Anisotropy Probe (WMAP): Chapter 7 On the Monopole, Flatness and Horizon Problems; Chapter 8 An Alternative to Inflation?; Appendix How close are the cosmic times for matter/radiation equality and for atom formation?; A Brief Glossary; Index Scientific Cosmology is clearly one of the most active physics research Sommario/riassunto fields at present, and likely to remain so in the near future. Shortly after the pioneering cosmological work of Einstein, Georges Lemaitre proposed a model which some years later to be known as the big-bang model. In the early fifties an alternative proposal, the so called steadystate (expansion at constant density) model, became the fashionable model in prominent academic circles. The discovery of the cosmic background microwave radiation (Penzias & Wilson, 1965) made the

steady-state model almost untenable. A quarter o