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## Frontiers of Cosmology: Proceedings of the NATO Asi on the Frontiers of Cosmology, Cargese, France from 8-20 September 2003 (Hardback)

By -

Springer-Verlag New York Inc., United States, 2005. Hardback. Book Condition: New. 2005 ed.. 239 x 163 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The field of cosmology is currently undergoing a revolution driven by dramatic observational progress and by novel theoretical scenarios imported from particle physics. In particular, two most remarkable results were recently obtained from measurements of the angular spectrum of the fluctuations in the Cosmic Microwave Background (CMB) radiation providing convincing evidence that the Universe is nearly flat and from the Hubble diagram of distant supernovae indicating an accelerating expansion rate, which implies the existence of some dark energy as the dominant component of the Universe. Indeed, the next decade will benefit from high quality data on cosmology from different major experiments and observatories, with a particular important contribution from space missions such as WMAP, Planck Surveyor, XMM and SNAP among others. On one side, cosmologists believe they understand the origin of the main ingredients which allow a coherent description of the Universe from its very early phase, namely inflation, to the actual epoch which accounts for the origin of the primordial fluctuations, allowing predictions of their imprints in the cosmic microwave sky and leading to the large scale structure...

### Reviews

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