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Titolo	The rotation of sun and stars / / J.-P. Rozelot, C. Neiner (Eds.)
Pubbl/distr/stampa	Berlin ; ; Heidelberg, : Springer-Verlag, 2009
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Descrizione fisica	1 online resource (X, 264 p. 118 illus., 28 illus. in color.)
Collana	Lecture notes in physics, , 0075-8450 ; ; 765
Altri autori (Persone)	NeinerC (Coralie) RozelotJ.-P <1942-> (Jean-Pierre)
Disciplina	523.73
Soggetti	Stars - Rotation Sun Rotation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Sun: A Slowly Rotating Star -- What Is Coming: Issues Raised from Observation of the Shape of the Sun -- Effects of Rotation on Stellar p-Mode Frequencies -- Approaching the Low-Frequency Spectrum of Rotating Stars -- The Rotation of the Solar Core -- Physics of Rotation in Stellar Models -- Long Baseline Interferometry of Rotating Stars Across the HR Diagram: Flattening, Gravity Darkening, Differential Rotation -- Is the Critical Rotation of Be Stars Really Critical for the Be Phenomenon? -- On the Rotation of A-Type Stars -- The Solar Magnetic Field: Surface and Upper Layers, Network and Internetwork Field.
Sommario/riassunto	The Sun and stars rotate in different ways and at different rates of velocity, and knowledge of how they rotate is important in understanding the formation and evolution of stars and their structure. The wide variety of stars offers an equally wide variety of rotation rates and rotational evolution. From the slowly rotating stars to stars rotating close to their breakup velocities, different techniques and models have to be developed to study rotation and its effects on physical aspects of stars. In fact, one currently witnesses a complete renewal of astrophysical ideas about stellar rotation, mainly due to the development of new models including high-order effects of rotation and magnetism. This book, while not attempting to answer all

questions about rotation, given that many issues still have to be further investigated, focuses on the basics and some particular aspects while aiming to show why it is important, from a physical point of view, to study stellar rotation. Based on courses given at a graduate school, these tutorial lectures will be of interest and useful to a rather broad audience of scientists and students.

2. Record Nr.

Autore

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Descrizione fisica

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Trothen Tracy J

Ethics, Religion, and Spiritual Health : Intersections With Artificial Intelligence or Other Human Enhancement Technologies

Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022

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Soggetti

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Sommario/riassunto

What does human enhancement technology (HET) and artificial intelligence (AI) have to do with religion? This book explores, specifically, the intersection of HET and AI with spiritual health, Christianity, and ethics. The exploration strengthens an emergent, robust body of publications about human enhancement ethics. What does it mean to make us "better" must also address the potential spiritual implications. Concern for spiritual health promises to make the study of religion and human enhancement ethics increasingly pressing in the public sphere. Some of the most significant possible and probable spiritual impacts of HET and AI are probed. Topics include warfare, robots, chatbots, moral bioenhancement, spiritual psychotherapy, superintelligence, ecology, fasting, and psychedelics. Two sections comprise this book: one addresses spirituality in relation to HETs and AI, and one addresses Christianity in relation to HETs and AI.

