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team's paper was published in the *Astrophysical ...*

The methods used in the detection and characterisation of exoplanets are presented in this unique textbook for advanced undergraduates.

This volume contains working papers on astronomy and astrophysics prepared by 15 non-National Research Council panels in areas ranging from radio astronomy to the status of the profession.

What makes one scientist a good communicator and another a poor one? How communicate scientific results through adequate and efficient scientific writing? How does the editorial process of a journal function, and why do scientific papers need to be refereed? All these questions, and many more, led the Board of Directors of the leading professional journal *Astronomy & Astrophysics (A&A)* and its publisher EDP Sciences to organize, under the direction of Christiaan Sterken, the Scientific Writing for Young Astronomers courses for beginning PhD Students. This book contains a set of seven lectures that were delivered during two schools that took place in 2008 and 2009 in Blankenberge, Belgium. The contributions discuss all aspects of

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scientific publication, from the history and operations of A&A, its Editors' views of the peerreview and publishing processes, and the publication process as seen from the Publisher's side. Two chapters written by the A&A language editors deal with the principles of effective scientific writing. The last two contributions focus on the use of library services and large database facilities in the context of astronomical research and publication.

Big Data in Radio Astronomy: Scientific Data Processing for Advanced Radio Telescopes provides the latest research developments in big data methods and techniques for radio astronomy. Providing examples from such projects as the Square Kilometer Array (SKA), the world's largest radio telescope that generates over an Exabyte of data every day, the book offers solutions for coping with the challenges and opportunities presented by the exponential growth of astronomical data. Presenting state-of-the-art results and research, this book is a timely reference for both practitioners and researchers working in radio astronomy, as well as students looking for a basic understanding of big data in astronomy. Bridges the gap between radio astronomy and computer science Includes coverage of the observation lifecycle as well as data collection, processing and analysis Presents state-of-the-art research and techniques in big data related to radio astronomy Utilizes real-

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world examples, such as Square Kilometer Array (SKA) and Five-hundred-meter Aperture Spherical radio Telescope (FAST)

Astronomers and astrophysicists are making revolutionary advances in our understanding of planets, stars, galaxies, and even the structure of the universe itself. The Decade of Discovery presents a survey of this exciting field of science and offers a prioritized agenda for space- and ground-based research into the twenty-first century. The book presents specific recommendations, programs, and expenditure levels to meet the needs of the astronomy and astrophysics communities. Accessible to the interested lay reader, the book explores: The technological investments needed for instruments that will be built in the next century. The importance of the computer revolution to all aspects of astronomical research. The potential usefulness of the moon as an observatory site. Policy issues relevant to the funding of astronomy and the execution of astronomical projects. The Decade of Discovery will prove valuable to science policymakers, research administrators, scientists, and students in the physical sciences, and interested lay readers. Alternate Selection, Astronomy Book Club

Big Data in Radio Astronomy provides the latest research developments

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in big data methods and techniques for radio astronomy. Providing examples from such projects as the Square Kilometer Array (SKA), which is the world's largest radio telescope and generates over an Exabyte of data every day, the book offers solutions for coping with the challenges and opportunities presented by the exponential growth of astronomical data. As new technologies emerge, it is important to consider the challenges of how to process, record, calibrate, and clean astronomical big data, as well as how to optimize and accelerate the algorithms for processing, and how to extract knowledge from big data. Presenting state-of-the-art results and research, *Big Data in Radio Astronomy* is a timely reference for both practitioners and researchers working in radio astronomy, as well as students looking for a basic understanding of big data in astronomy.

This is the first scholarly collection of articles focused on the cultural astronomy of the African continent. It weaves together astronomy, anthropology, and Africa and it includes African myths and legends about the sky, alignments to celestial bodies found at archaeological sites and at places of worship, rock art with celestial imagery, and scientific thinking revealed in local astronomy traditions including ethnomathematics and the creation of calendars.

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Student astronomy research papers.

In preparing the report, *Astronomy and Astrophysics in the New Millennium*, the AASC made use of a series of panel reports that address various aspects of ground- and space-based astronomy and astrophysics. These reports provide in-depth technical detail. *Astronomy and Astrophysics in the New Millennium: An Overview* summarizes the science goals and recommended initiatives in a short, richly illustrated, non-technical booklet.

Driven by discoveries, and enabled by leaps in technology and imagination, our understanding of the universe has changed dramatically during the course of the last few decades. The fields of astronomy and astrophysics are making new connections to physics, chemistry, biology, and computer science. Based on a broad and comprehensive survey of scientific opportunities, infrastructure, and organization in a national and international context, *New Worlds, New Horizons in Astronomy and Astrophysics* outlines a plan for ground- and space-based astronomy and astrophysics for the decade of the 2010's. Realizing these scientific opportunities is contingent upon maintaining and strengthening the foundations of the research enterprise including technological development, theory, computation

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and data handling, laboratory experiments, and human resources. *New Worlds, New Horizons in Astronomy and Astrophysics* proposes enhancing innovative but moderate-cost programs in space and on the ground that will enable the community to respond rapidly and flexibly to new scientific discoveries. The book recommends beginning construction on survey telescopes in space and on the ground to investigate the nature of dark energy, as well as the next generation of large ground-based giant optical telescopes and a new class of space-based gravitational observatory to observe the merging of distant black holes and precisely test theories of gravity. *New Worlds, New Horizons in Astronomy and Astrophysics* recommends a balanced and executable program that will support research surrounding the most profound questions about the cosmos. The discoveries ahead will facilitate the search for habitable planets, shed light on dark energy and dark matter, and aid our understanding of the history of the universe and how the earliest stars and galaxies formed. The book is a useful resource for agencies supporting the field of astronomy and astrophysics, the Congressional committees with jurisdiction over those agencies, the scientific community, and the public.