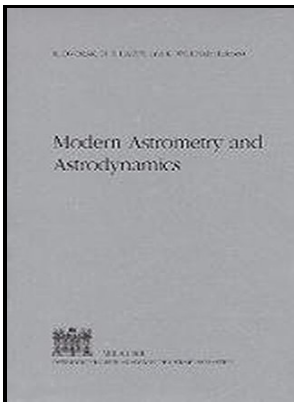


# Modern astrometry and astrodynamics - proceedings of the international conference honouring Heinrich Eichhorn held at Vienna Observatory, Austria, May 25-26th 1998

Verlag der Österreichischen Akademie der Wissenschaften - International Colloquium on Modern Astrometry and Astrodynamics : Festschrift Eichhorn (Heinrich Karl)

Description: -

-  
Mineral industries -- Equipment and supplies.  
Mineral industries -- Costs.  
Music appreciation -- Instruction and study.  
Jewish law.  
Responsa -- 1600-1800.  
English language -- Old English, ca. 450-1100 -- Dialects -- Mercian.  
British museum -- Mss. (Cottonian Vespasian A. 1.)  
Astrometry -- Congresses.  
Astrodynamics -- Congresses. Modern astrometry and astrodynamics - proceedings of the international conference honouring Heinrich Eichhorn held at Vienna Observatory, Austria, May 25-26th 1998  
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The Karl Schwarzschild medal 2003 was awarded to Professor Erika Boehm-Vitense, Seattle, USA. The aim of the conference, and thus this book, is to communicate work on astrodynamics problems to an international and specialised audience.

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. After establishing similarity in data gathering, pre-processing and handling, the data science aspects are illustrated in the context of both fields.

## International Colloquium on Modern Astrometry and Astrodynamics : Festschrift Eichhorn (Heinrich Karl)

Finally, the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants. An introduction to practical astrometry, dealing with the determination of positions, motions, distances and dimensions of celestial bodies ranging from quasars to artificial satellites.

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Machine learning and parallel computing are increasingly becoming cross-disciplinary as the phenomena of Big Data is becoming common place. For this 2nd edition, the release of the Hipparcos and Tycho catalogs, the rise in CCD astrometry and the adoption of a new celestial reference frame by the IAU led to a significant modification of the text.

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The book addresses a readership across the traditional boundaries between mathematics, engineering and industry by offering an interdisciplinary and multisectorial overview of the field.

## **Modern Astrometry and Astrodynamics**

The talk presented by the Ludwig Biermann-Prize winner 2003, Dr Luis R. Software, hardware and algorithms of big data are addressed.

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The results are presented by both members of the network and invited specialists.

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