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# Astrophysics, Clocks and Fundamental Constants



Springer

# Astrophysics Clocks And Fundamental Constants

## Lecture Notes In Physics

**Savely G. Karshenboim, Ekkehard Peik**



## **Astrophysics Clocks And Fundamental Constants Lecture Notes In Physics:**

*Astrophysics, Clocks and Fundamental Constants* Savely G. Karshenboim, Ekkehard Peik, 2004-08-11 The question of a possible temporal variation of the fundamental constants was raised by Paul Dirac in his large number hypothesis in 1937. Today it appears in the context of the search for a unified theory of the fundamental interactions. It touches both fundamental and applied physics as the postulate of the unalterability of the constants is the foundation for modern metrology. The book presents reviews written by leading experts in the field. Focussing on the question of variations of the fundamental constants in time or space, the chapters cover the theoretical framework in which variations are expected and the search for variations of quantities like the fine structure constant, the electron proton mass ratio,  $g$  factors of proton and neutron etc. in astrophysical and geophysical observations and in precision experiments with atomic clocks and frequency standards.

**Quantum Metrology** Ernst O. Goebel, Uwe Siegener, 2015-06-10 The International System of Units (SI) is the world's most widely used system of measurement, used every day in commerce and science and is the modern form of the metric system. It currently comprises the meter (m), the kilogram (kg), the second (s), the ampere (A), the kelvin (K), the candela (cd) and the mole (mol). The system is changing though units and unit definitions are modified through international agreements as the technology of measurement progresses and as the precision of measurements improves. The SI is now being redefined based on constants of nature and their realization by quantum standards. Therefore the underlying physics and technologies will receive increasing interest and not only in the metrology community but in all fields of science. This book introduces and explains the applications of modern physics concepts to metrology, the science and the applications of measurements. A special focus is made on the use of quantum standards for the realization of the forthcoming new SI, the international system of units. The basic physical phenomena are introduced on a level which provides comprehensive information for the experienced reader but also provides a guide for a more intense study of these phenomena for students.

**Vignettes In Gravitation And Cosmology** Lakshmanan Sriramkumar, T. R. Seshadri, 2012-03-20 This book comprises expository articles on different aspects of gravitation and cosmology that are aimed at graduate students. The topics discussed are of contemporary interest assuming only an elementary introduction to gravitation and cosmology. The presentations are to a certain extent pedagogical in nature and the material developed is not usually found in sufficient detail in recent textbooks in these areas.

**Atomic Spectroscopy** K.P. Rajappan Nair, 2019-06-06 Spectroscopy is an indispensable tool in understanding physical and chemical structure and today very sophisticated spectroscopic instruments are available with modern data processing techniques. This book covers the elementary and basic aspects of atomic spectroscopy like Bohr's theory and atomic physics up to the latest developments including laser cooling, Bose-Einstein condensates and atom lasers. Spectroscopy plays a major role in every field of science and this book would be valuable for physicists, chemists and biologists.

**Energy and Mass in Relativity Theory** Lev Borisovi? Oku?, 2009 This is the first book in which Einstein's equation is explicitly compared with its popular

though not correct counterpart  $E = mc^2$  according to which mass increases with velocity The book will be of interest to researchers in theoretical atomic and nuclear physics to historians of science as well as to students and teachers interested in relativity theory

Theory and Experiment in Gravitational Physics Clifford M. Will, 2018-09-27 The 2015 centenary of the publication of Einstein's general theory of relativity and the first detection of gravitational waves have focused renewed attention on the question of whether Einstein was right This review of experimental gravity provides a detailed survey of the intensive testing of Einstein's theory of gravity including tests in the emerging strong field dynamical regime It discusses the theoretical frameworks needed to analyze gravitational theories and interpret experiments Completely revised and updated this new edition features coverage of new alternative theories of gravity a unified treatment of gravitational radiation and the implications of the latest binary pulsar observations It spans the earliest tests involving the Solar System to the latest tests using gravitational waves detected from merging black holes and neutron stars It is a comprehensive reference for researchers and graduate students working in general relativity cosmology particle physics and astrophysics

**The New International System of Units (SI)** Ernst O. Göbel, Uwe Siegmeyer, 2019-05-31 The International System of Units the SI provides the foundation for all measurements in science engineering economics and society The SI has been fundamentally revised in 2019 The new SI is a universal and highly stable unit system based on invariable constants of nature Its implementation rests on quantum metrology and quantum standards which base measurements on the manipulation and counting of single quantum objects such as electrons photons ions and flux quanta This book explains and illustrates the new SI its impact on measurements and the quantum metrology and quantum technology behind it The book is based on the book Quantum Metrology Foundation of Units and Measurements by the same authors From the contents Measurement The SI System International Unit's Realization of the SI Second Thermal Beam Cs Clock Laser Cooling and the Cs Fountain Clock Flux Quanta Josephson Effect and the SI Volt Quantum Hall Effect the SI Ohm and the SI Farad Single Charge Transfer Devices and the SI Ampere The SI Kilogram the Mole and the Planck constant The SI Kelvin and the Boltzmann Constant Beyond the present SI Optical Clocks and Quantum Radiometry Outlook

Applied General Relativity Michael H. Soffel, Wen-Biao Han, 2019-09-23 In the late 20th and beginning 21st century high precision astronomy positioning and metrology strongly rely on general relativity Supported by exercises and solutions this book offers graduate students and researchers entering those fields a self contained and exhaustive but accessible treatment of applied general relativity The book is written in a homogenous graduate level textbook style allowing the reader to understand the arguments step by step It first introduces the mathematical and theoretical foundations of gravity theory and then concentrates on its general relativistic applications clock rates clock synchronization establishment of time scales astronomical references frames relativistic astrometry celestial mechanics and metrology The authors present up to date relativistic models for applied techniques such as Satellite LASER Ranging SLR Lunar LASER Ranging LLR Global Navigation Satellite Systems GNSS

Very Large Baseline Interferometry VLBI radar measurements gyroscopes and pulsar timing A list of acronyms helps the reader keep an overview and a mathematical appendix provides required functions and terms      *Topics in Hypersonic Flow Theory* Radyadour Kh. Zeytounian, 2005-12-20 Hypersonic fluid flows characterized by a low Mach number are mainly linked with geophysical and environmental fluid flows In addition they are relevant to engineers because of their connection with aerodynamics The book brings together insights derived from mathematically rigorous results and combines them with a number of realistic fluid flow situations Asymptotic analytic solutions for the low Mach number cases are developed to provide both insights into the underlying physics as well as benchmarks for numerical computations      **Epistemology of Experimental Gravity - Scientific Rationality** Nicolae Sfetcu, 2019 The evolution of gravitational tests from an epistemological perspective framed in the concept of rational reconstruction of Imre Lakatos based on his methodology of research programmes Unlike other works on the same subject the evaluated period is very extensive starting with Newton's natural philosophy and up to the quantum gravity theories of today In order to explain in a more rational way the complex evolution of the gravity concept of the last century I propose a natural extension of the methodology of the research programmes of Lakatos that I then use during the paper I believe that this approach offers a new perspective on how evolved over time the concept of gravity and the methods of testing each theory of gravity through observations and experiments I argue based on the methodology of the research programmes and the studies of scientists and philosophers that the current theories of quantum gravity are degenerative due to the lack of experimental evidence over a long period of time and of self immunization against the possibility of falsification Moreover a methodological current is being developed that assigns a secondary unimportant role to verification through observations and or experiments For this reason it will not be possible to have a complete theory of quantum gravity in its current form which to include to the limit the general relativity since physical theories have always been adjusted during their evolution based on observational or experimental tests and verified by the predictions made Also contrary to a widespread opinion and current active programs regarding the unification of all the fundamental forces of physics in a single final theory based on string theory I argue that this unification is generally unlikely and it is not possible anyway for a unification to be developed based on current theories of quantum gravity including string theory In addition I support the views of some scientists and philosophers that currently too much resources are being consumed on the idea of developing quantum gravity theories and in particular string theory to include general relativity and to unify gravity with other forces as long as science does not impose such research programs

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