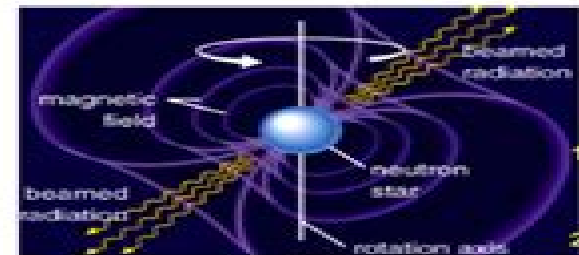


CHAPTER 13: Neutron Stars and Black Holes

- Type 2 Supernovae - core bounce in evolved high mass stars
 - After the bounce, a super-dense remnant remains
 - Just before the bounce, the iron atom particles (electrons and protons) in the core are crushed together
 - Neutronization
 - We're left with a ball of neutrons supported by neutron degeneracy pressure -> A neutron star!
 - Composition: Neutrons
 - Mass: 1-3 M_{sun}
 - Radius: 10 km (6 miles)
 - Density: 10^{11} kg/cm^3
- Neutron stars spin very rapidly because:
 - Angular momentum, L , is conserved
 - Mass stays the same
 - Before collapse, stars rotate once per 25 days
 - Neutron stars rotate in less than a second
- Neutron stars have very strong magnetic fields because:
 - Contracting stars carry their magnetic fields with them
 - The field intensifies with the contraction so compact objects (like neutron stars) often have strong magnetic fields
- The combination of these characteristics leads to a phenomenon called: PULSARS
 - The first PULSAR was discovered in 1967 by Jocelyn Bell, who measured this radio signal from an unresolved source... in 1974 her advisor Anthony Hewish won the nobel prize in physics for explaining it:
 - 1: Strong magnetic fields lead to hot spots at the magnetic poles
 - 2: Accelerated particles at hot spots emit beamed radiation
 - 3: If the rotation axis DOES NOT equal the magnetic field axis, then this "searchlight" rotates
 - 4: The rotating searchlight is like a lighthouse, which we see as a Pulsar if we happen to lie in the searchlight beam
 - Not all neutron stars will be observed by us as Pulsars, because the searchlight might not intercept Earth
 - The pulse period gives the rotation period of the neutron star
 - Typical periods are .03 to 1 second, or 1-30 rotations per second

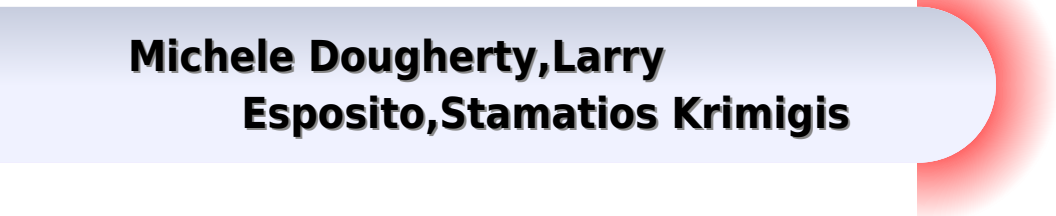
$$L_{\text{before}} = L_{\text{after}}$$

$$mvR = mVr$$



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**Michele Dougherty, Larry
Esposito, Stamatios Krimigis**



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Introduction to Astronomical Photometry Edwin Budding, Osman Demircan, 2007-04-26 Review of astronomical photometry for graduate students researchers and advanced amateurs in practical and observational astronomy General physics, relativity, astronomy and mathematical physics and methods, 2008 Rivista internazionale di fisica *Nonlinear Dynamics in Astronomy and Physics* Stephen T. Gottesman, J. Robert Buchler, M. E. Mahon, 2005 This volume the proceedings of the 16th Florida Workshop in Nonlinear Astronomy and Physics emphasizes the cross disciplinary nature of much current research in astronomy and physics in the area of dynamics Developments in one field can advance more quickly when there is information available regarding parallel developments in other fields **Neutrinos in Particle Physics, Astronomy and Cosmology** Zhizhong Xing, Shun Zhou, 2011-06-08 Neutrinos in Particle Physics Astronomy and Cosmology provides a comprehensive and up to date introduction to neutrino physics neutrino astronomy and neutrino cosmology The intrinsic properties and fundamental interactions of neutrinos are described as is the phenomenology of lepton flavor mixing seesaw mechanisms and neutrino oscillations The cosmic neutrino background stellar neutrinos supernova neutrinos and ultrahigh energy cosmic neutrinos together with the cosmological matter antimatter asymmetry and other roles of massive neutrinos in cosmology are discussed in detail This book is intended for researchers and graduate students in the fields of particle physics particle astrophysics and cosmology Dr Zhizhong Xing is a professor at the Institute of High Energy Physics Chinese Academy of Sciences China Dr Shun Zhou is currently a postdoctoral fellow at the Max Planck Institute for Physics Germany

Statistics, Data Mining, and Machine Learning in Astronomy Željko Ivezić, Andrew J. Connolly, Jacob T. VanderPlas, Alexander Gray, 2020 As telescopes detectors and computers grow ever more powerful the volume of data at the disposal of astronomers and astrophysicists will enter the petabyte domain providing accurate measurements for billions of celestial objects This book provides a comprehensive and accessible introduction to the cutting edge statistical methods needed to efficiently analyze complex data sets from astronomical surveys such as the Panoramic Survey Telescope and Rapid Response System the Dark Energy Survey and the upcoming Large Synoptic Survey Telescope It serves as a practical handbook for graduate students and advanced undergraduates in physics and astronomy and as an indispensable reference for researchers The updates in this new edition will include fixing code rot correcting errata and adding some new sections In particular the new sections include new material on deep learning methods hierarchical Bayes modeling and approximate Bayesian computation Statistics Data Mining and Machine Learning in Astronomy presents a wealth of practical analysis problems evaluates techniques for solving them and explains how to use various approaches for different types and sizes of data sets For all applications described in the book Python code and example data sets are provided The supporting data sets have been carefully selected from contemporary astronomical surveys for example the Sloan Digital Sky Survey and are easy to download and use The accompanying Python code is publicly available well documented and follows uniform coding

standards Together the data sets and code enable readers to reproduce all the figures and examples evaluate the methods and adapt them to their own fields of interest

Digital Communications Mehmet Safak,2017-04-17 This is a modern textbook on digital communications and is designed for senior undergraduate and graduate students whilst also providing a valuable reference for those working in the telecommunications industry It provides a simple and thorough access to a wide range of topics through use of figures tables examples and problem sets The author provides an integrated approach between RF engineering and statistical theory of communications Intuitive explanations of the theoretical and practical aspects of telecommunications help the reader to acquire a deeper understanding of the topics The book covers the fundamentals of antennas channel modelling receiver system noise A D conversion of signals PCM baseband transmission optimum receiver modulation techniques error control coding OFDM fading channels diversity and combining techniques MIMO systems and cooperative communications It will be an essential reference for all students and practitioners in the electrical engineering field

[Encyclopedia of Astronomy & Astrophysics](#) P Murdin,2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia s authority is assured by editorial and advisory boards drawn from the world s foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work

[Asteroids](#) Edward C. Blair,2002 With the bulk of asteroids floating in space between the orbits of Mars and Jupiter astronomers puzzle over where these rocks came from Are they the remnants of a planet Excess not used in the formation of the Solar System Nothing more than random bits of debris The location of the belt makes for a quasi barrier separating the inner from the outer planets Perhaps asteroids were meant to discourage human space exploration NASA has sent missions to explore the asteroid belt and the rocks themselves and those missions have yielded some interesting observations on the composition of the asteroids but no definitive answer as to their origin Earth based tools such as telescopes and satellites also contribute to asteroid research but cannot plumb the depths behind these varied chunks of flotsam Presented in this book is a list of carefully chosen abstracts and citations of relevant literature about asteroids and the research into them Prior to this listing though comes an overview of the nature of the asteroids and what we know now about them and what we hope to discover in the future lifeless but mysterious rocks inhabiting the solar system To conclude easy access is provided through author title and subject indexes

[Asteroids IV](#) Patrick Michel,Francesca E. DeMeo,William F. Bottke,2015-12-31 More than forty chapters detail our current astronomical compositional geological and geophysical knowledge of asteroids as well as their unique physical processes and

interrelationships with comets and meteorites Provided by publisher **Scientific and Technical Aerospace Reports**, 1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Astronomical Applications of Astrometry** M. A. C. Perryman, 2009 The Hipparcos satellite developed and launched by the European Space Agency ESA in 1989 was the first space mission dedicated to astrometry the accurate measurement of positions distances and proper motions of stars Amongst the key achievements of its measurements are refining the cosmic distance scale characterizing the large scale kinematic motions in the Solar neighborhood providing precise luminosities for stellar modelling and confirming Einstein's prediction of the effect of gravity on starlight This authoritative account of the Hipparcos contributions over the last decade is an outstanding reference for astronomers astrophysicists and cosmologists It reviews the applications of the data in different areas describing the subject and the state of the art before Hipparcos and summarizing all major contributions to the topic made by Hipparcos It contains a detailed overview of the Hipparcos and Tycho Catalogues their annexes and their updates Each chapter ends with comprehensive references to relevant literature

Science John Michels (Journalist), 2008 **Ferguson's Lectures on Select Subjects in Mechanics, Hydrostatics, Hydraulics, Pneumatics, Optics, Geography, Astronomy and Dialing** James Ferguson, David Brewster, 1806

Principles and Perspectives in Cosmochemistry Aruna Goswami, B. Eswar Reddy, 2010-03-19 A fundamental question in contemporary astrophysics is the origin of the elements Cosmochemistry seeks to answer when how and where the chemical elements arose Quantitative answers to these fundamental questions require a multi disciplinary approach involving stellar evolution explosive nucleosynthesis and nuclear reactions in different astrophysical environments There remain however many outstanding problems and cosmochemistry remains a fertile area of research This book is among the first in recent times to put together the essentials of cosmochemistry combining contributions from leading astrophysicists in the field The chapters have been organized to provide a clear description of the fundamentals an introduction to modern techniques such as computational modelling and glimpses of outstanding issues **Vertical Coupling in the Atmosphere-Ionosphere-Magnetosphere System** Jaroslav Chum, Petra Koucka Knizova, Veronika Barta, Christina Arras, Dmitry Pokhotelov, Erich Becker, Christoph Jacobi, Han-Li Liu, Huixin Liu, Gunter Stober, 2024-01-30 *Practising Cultural Geographies* Ravi S. Singh, Bharat Dahiya, Arun K. Singh, Padma C. Poudel, 2022-05-20 This festschrift honours Prof Rana P B Singh who has dedicated his life to teaching and conducting research on cultural geography with a dweller Indian perspective The book focuses on the cultural geographies of India and to an extent that of South Asia It is a rich collection of 23 essays on the themes appraised by him covering landscapes religion heritage pilgrimage and tourism and human settlements *Subatomic Physics (3rd Edition)* Alejandro Garcia, Ernest M Henley, 2007-07-13 This is the third and fully updated edition of the classic textbook on physics at the subatomic level An up to date and lucid introduction to both particle

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Saturn from Cassini-Huygens Michele Dougherty, Larry Esposito, Stamatios Krimigis, 2009-09-30 This book is one of two volumes meant to capture to the extent practical the scientific legacy of the Cassini Huygens prime mission a landmark in the history of planetary exploration As the most ambitious and interdisciplinary planetary exploration mission own to date it has extended our knowledge of the Saturn system to levels of detail at least an order of magnitude beyond that gained from all previous missions to Saturn Nestled in the brilliant light of the new and deep understanding of the Saturn planetary system is the shiny nugget that is the spectacularly successful collaboration of individuals organizations and governments in the achievement of Cassini Huygens In some ways the partnerships formed and lessons learned may be the most enduring legacy of Cassini Huygens The broad international coalition that is Cassini Huygens is now conducting the Cassini Equinox Mission and planning the Cassini Solstice Mission and in a major expansion of those fruitful efforts has extended the collaboration to the study of new flagship missions to both Jupiter and Saturn Such ventures have and will continue to enrich us all and evoke a very optimistic vision of the future of international collaboration in planetary exploration The two volumes in the series Saturn from Cassini Huygens and Titan from Cassini Huygens are the direct products of the efforts of over 200 authors and co authors Though each book has a different set of three editors the group of six editors for the two volumes has worked together through every step of the process to ensure that these two volumes are a set

The Orphic Astrologer Critodemus Cristian Tolsa, 2023-12-04 Despite the relevance of astrology in Graeco Roman mentality our information about the early period of Hellenistic astrology is marred by the scarcity of original sources Personal astrology did not take off until the late Hellenistic period due to the more substantial Hellenization of Mesopotamia facilitating the import of Babylonian theories The most relevant doctrines mostly surviving as references and partial paraphrases in later authors and astrological miscellanies are attached to the pseudepigraphical names of Nechepsos and Petosiris which have been traced back to the Egyptian Demotic tradition Critodemus who is classified as a later author even if Firmicus Maternus invokes him as a founding authority appears as a parallel to these Egyptian transmitters in that he presented astrology like them in the form of a didactic poem but employing an Orphic frame instead of Egyptian By collecting contextualizing and analyzing all the evidence on this author this book establishes a relatively early chronology for Critodemus and aims both at distinguishing his

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