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light observed from distant objects is found to be deflected by the gravitational field of massive objects near the line of sight an effect predicted by Einstein in his first paper setting forth the general theory of relativity and confirmed by Eddington soon afterwards if the source of the light is sufficiently distant and bright and if the intervening object is massive enough and near enough to the line of sight the gravitational field acts like a lens focusing the light and producing one or more bright images of the source this book by renowned researchers in the field begins by discussing the basic physics behind gravitational lenses the optics of curved space time it then derives the appropriate equations for predicting the properties of these lenses in addition it presents up to date observational evidence for gravitational lenses and describes the particular properties of

the observed cases the authors also discuss applications of the results to problems in cosmology

enrich your next sea vacation with this fun how to guide to observing and doing astrophotography on water collecting together the author s five decades of astrophotography and teaching experience this book shares all the practical information you will need to start on your own astronomy adventure part i is full of practical advice on what to pack the best ways to enjoy the night sky from your cruise ship observatory specific astronomical objects and events to look out for and myriad other useful tips part ii gives you a crash course on astrophotography at sea teaching you the nitty gritty details of taking pictures of the night sky proof that it can be done is provided by the many amazing color astrophotographs taken by the author while following the steps laid out in this book

the night sky is positively teeming with wonders from star clusters and nebulae to quasars astronomy is the means by which these and other similar phenomena are discovered and observed this stellar resource traces the path of modern astronomy from initial efforts to map the heavens to today s use of high tech telescopic devices that help people delve deeper into celestial discovery

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

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one of the most attractive features of the young discipline of space science is that many of the original pioneers and key players involved are still available to describe their field hence at this point in history we are in a unique position to gain first hand insight into the field and its development to this end the century of space science a scholarly authoritative reference book presents a chapter by chapter retrospective of space science as studied in the 20th century the level is academic and focuses on key discoveries how these were arrived at their scientific consequences and how these discoveries advanced the thoughts of the key players involved with over 90 world class contributors such as james van allen cornelis de jager eugene parker reimar lüst and ernst stuhlinger and with a foreword by lodewijk woltjer past eso director general this book will be immensely useful to readers in the fields of space science astronomy and the history of science both academic institutions and researchers

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