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Buchi Neri-Fonte Wikipedia 2013-09 Fonte: Wikipedia. Pagine: 46. Capitoli: Spazio-tempo di Schwarzschild, Ponte di Einstein-Rosen, Metrica di Kerr, Buco nero, Micro buco nero, Metrica di Kerr-Newman, Termodinamica dei buchi neri, Buco nero stellare, Radiazione di Hawking, Buco nero di Kerr-Newman, Paradosso dell'informazione del buco nero, Teorema di nessun capello, Buco bianco, Orizzonte degli eventi, Gravita di superficie, Buco nero di massa intermedia, Buco nero supermassiccio, Metrica di Reissner-Nordstrom, Ergosfera, Buco nero privo di singolarita, Buco nero primordiale, Buco nero rotante, Effetto Unruh, Processo Penrose, Stella di energia oscura, Stella nera, Sfera di fotoni, Limite di Tolman-Oppenheimer-Volkoff, Buco nero AdS, Singolarita nuda, Buco nero di Planck, Buco nero estremo, Spaghettificazione, Buco nero caricato, LMC X-3. Estratto: La soluzione di Schwarzschild per le equazioni di Einstein nel vuoto, descrive lo spazio-tempo attorno ad una massa sferica, non rotante, e priva di carica elettrica. Essa e stata storicamente la prima ad essere trovata, pochi mesi dopo la pubblicazione della teoria della relativita generale. Karl SchwarzschildMatematicamente rappresenta la geometria di uno spazio-tempo statico ed a simmetria sferica. Anzi, come dimostrato dal teorema di Birkhoff, la staticita e una conseguenza della simmetria sferica, e quella di Schwarzschild e la soluzione piu generale che soddisfa a queste due richieste. Benche essa sia un'approssimazione (praticamente tutti i corpi celesti ruotano), trova vaste applicazioni. I moti planetari attorno al Sole, ad esempio, che nella teoria della gravitazione newtoniana erano descritti come moti in un campo di forze centrale, per cui erano valide le leggi di Keplero, sono descritti dalla relativita generale come moti di masse di prova (ossia moti geodetici) nello spazio-tempo di Schwarzschild. In particolare, se nella teoria kepleriana le orbite dei pianeti erano ellissi, in quella relativistica sono rosette (per...

Bad Astronomy-Philip C. Plait 2002-10-08 Advance praise for Philip Plait s Bad Astronomy "Bad Astronomy is just plain good! Philip Plait clears up everymisconception on astronomy and space you never knew you sufferedfrom." --Stephen Maran, Author of Astronomy for Dummies and editorof The Astronomy and Astrophysics Encyclopedia "Thank the cosmos for the bundle of star stuff named Philip Plait,who is the world s leading consumer advocate for quality science inspace and on Earth. This important contribution to science willrest firmly on my reference library shelf, ready for easy accessthe next time an astrologer calls." --Dr. Michael Shermer,Publisher of Skeptic magazine, monthly columnist for ScientificAmerican, and author of The Borderlands of Science "Philip Plait has given us a readable, erudite, informative,useful, and entertaining book. Bad Astronomy is Good Science. Verygood science..." --James "The Amazing" Randi, President, JamesRandi Educational Foundation, and author of An Encyclopedia ofClaims, Frauds, and Hoaxes of the Occult and Supernatural

"Bad Astronomy is a fun read. Plait is wonderfully witty andeducational as he debunks the myths, legends, and 'conspiraciesthat abound in our society. 'The Truth Is Out There' and it's inthis book. I loved it!" --Mike Mullane, Space Shuttle astronaut andauthor of Do Your Ears Pop in Space?

The Black Hole at the Center of Our Galaxy-Fulvio Melia 2018-06-05 Could Einstein have possibly anticipated directly testing the most captivating prediction of general relativity, that there exist isolated pockets of spacetime shielded completely from our own? Now, almost a century after that theory emerged, one of the world's leading astrophysicists presents a wealth of recent evidence that just such an entity, with a mass of about three million suns, is indeed lurking at the center of our galaxy, the Milky Way--in the form of a supermassive ''black hole''! With this superbly illustrated, elegantly written, nontechnical account of the most enigmatic astronomical object yet observed, Fulvio Melia captures all the excitement of the growing realization that we are on the verge of actually seeing this exotic object within the next few years. Melia traces our intellectual pilgrimage to the ''brooding behemoth'' at the heart of the Milky Way. He describes the dizzying technological advances that have recently brought us to the point of seeing through all the cosmic dust to a dark spot in a clouded cluster of stars in the constellation Sagittarius. Carefully assembling the compelling circumstantial evidence for its black hole status, he shows that it is primed to reveal itself as a glorious panorama of activity within this decade--through revolutionary images of its ''event horizon'' against the bright backdrop of nearby, radiating gas. Uniquely, this book brings together a specific and fascinating astronomical subject--black holes--with a top researcher to provide both amateur and armchair astronomers, but also professional scientists seeking a concise overview of the topic, a real sense of the palpable thrill in the scientific community when an important discovery is imminent.

High Performance Computing and Applications-Wu Zhang 2010-02-19 This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on High Performance Computing and Applications, HPCA 2009, held in Shangahi, China, in August 2009. The 71 revised papers presented together with 10 invited presentations were carefully selected from 324 submissions. The papers cover topics such as numerical algorithms and solutions; high performance and grid computing; novel approaches to high performance computing; massive data storage and processsing; and hardware acceleration.

Coelum- 1982

Astrophysical Concepts-Martin Harwit 2012-12-06 This classic text - aimed at senior undergraduates and beginning graduate students in physics and astronomy - presents a wide range of concepts in sufficient depth to give the reader a quantitative understanding of the subject. Emphasising physical concepts, it provides the student with a series of astrophysical sketches, concluding with a synthesis of all the subjects discussed in the book, sketching the history of the universe from its beginning to the formation of the Sun and the planets.

Black Holes and Relativistic Stars-Robert M. Wald 1998 A comprehensive summary of progress made during the past decade on the theory of black holes and relativistic stars, this collection includes discussion of structure and oscillations of relativistic stars, the use of gravitational radiation detectors, observational evidence for black holes, cosmic censorship, numerical work related to black hole collisions, the internal structure of black holes, black hole thermodynamics, information loss and other issues related to the quantum properties of black holes, and recent developments in the theory of black holes in the context of string theory. Volume contributors: Valeria Ferrari, John L. Friedman, James B. Hartle, Stephen W. Hawking, Gary T. Horowitz, Werner Israel, Roger Penrose, Martin J. Rees, Rafael D. Sorkin, Saul A. Teukolsky, Kip S. Thorne, and Robert M. Wald.

The Curious History of Relativity-Jean Eisenstaedt 2018-06-05 Black holes may obliterate most things that come near them, but they saved the theory of general relativity. Einstein's theory was quickly accepted as the

true theory of gravity after its publication in 1915, but soon took a back seat in physics to quantum mechanics and languished for decades on the blackboards of mathematicians. Not until the existence of black holes by Stephen Hawking and Roger Penrose in the 1960s, after Einstein's death, was the theory revived. Almost one hundred years after general relativity replaced Newton's theory of gravitation, The Curious History of Relativity tells the story of both events surrounding general relativity and the techniques employed by Einstein and the relativists to construct, develop, and understand his almost impenetrable theory. Jean Eisenstaedt, one of the world's leading experts on the subject, also discusses the theory's place in the evolution of twentieth-century physics. He describes the main stages in the development of general relativity: its beginnings, its strange crossing of the desert during Einstein's lifetime while under heated criticism, and its new life from the 1960s on, when it became vital to the understanding of black holes and the observation of exotic objects, and, eventually, to the discovery of the accelerating universe. We witness Einstein's construction of his theory, as well as the work of his fascinated, discouraged, and enthusiastic colleagues--physicists, mathematicians, and astronomers. Written with flair, The Curious History of Relativity poses--and answers--the difficult questions raised by Einstein's magnificent intellectual feat.

Novae and White Dwarfs-Amos J. Shaler 1941

One World-John C. Polkinghorne 2010-06-30 Both science and religion explore aspects of reality, providing "a basis for their mutual interaction as they present their different perspectives onto the one world of existent reality," Polkinghorne argues. In One World he develops his thesis through an examination of the nature of science, the nature of the physical world, the character of theology, and the modes of thought in science and theology. He identifies "points of interaction" and points of potential conflict between science and religion. Along the way, he discusses creation, determinism, prayer, miracles, and future life, and he explains his rejection of scientific reductionism and his defense of natural theology.

Where Is Science Going?-Max Planck 2017-06-28 First published in 1932, this book by Nobel Prize-winning German physicist Max Planck, a profound humanist as well as a theoretical scientist and professor in Germany between the two World Wars, provides the reader with a great insider’s look at how scientific revolutions unfold from the first sparks of ingenuity to their establishment as accepted paradigms of their current times.

Stellar Astrophysics-Roger John Tayler 1992 Stellar Astrophysics contains a selection of high-quality papers that illustrate the progress made in research into the structure and evolution of stars. Senior undergraduates, graduates, and researchers can now be brought thoroughly up to date in this exciting and ever-developing branch of astronomy.

Holographic Universe-Michael Talbot 1992-05-06 Examines a new theory of reality, based on holography, that explains the paranormal abilities of the mind, the latest frontiers of physics, and the unsolved riddles of the brain and body

Ptolemy's Almagest-Ptolemy 1998-11-08 Ptolemy's Almagest is one of the most influential scientific works in history. A masterpiece of technical exposition, it was the basic textbook of astronomy for more than a thousand years, and still is the main source for our knowledge of ancient astronomy. This translation, based on the standard Greek text of Heiberg, makes the work accessible to English readers in an intelligible and reliable form. It contains numerous corrections derived from medieval Arabic translations and extensive footnotes that take account of the great progress in understanding the work made in this century, due to the discovery of Babylonian records and other researches. It is designed to stand by itself as an interpretation of the original, but it will also be useful as an aid to reading the Greek text.

General Relativity-Robert M. Wald 2010-05-15 "Wald's book is clearly the first textbook on general relativity with a totally modern point of view; and

it succeeds very well where others are only partially successful. The book includes full discussions of many problems of current interest which are not treated in any extant book, and all these matters are considered with perception and understanding."—S. Chandrasekhar "A tour de force: lucid, straightforward, mathematically rigorous, exacting in the analysis of the theory in its physical aspect."—L. P. Hughston, Times Higher Education Supplement "Truly excellent. . . . A sophisticated text of manageable size that will probably be read by every student of relativity, astrophysics, and field theory for years to come."—James W. York, Physics Today

The Galactic Black Hole-H Falcke 2002-12-16 The supermassive black hole in the center of our Milky Way is the nearest such object and relatively easy to observe and study. Not surprisingly therefore, it is the best studied supermassive black hole. Many astrophysical and even general relativistic effects can be investigated in great detail. The Galactic Black Hole: Lectures on General Relativity and Astrophysics provides a systematic introduction to the physics/astrophysics and mathematics of black holes at a level suitable for graduate students, postdocs, and researchers in physics, astrophysics, astronomy, and applied mathematics. The focus is mainly on the supermassive black hole in the center of our Milky Way but the results can be easily generalized taking it as an example. Leading international experts provide first-hand accounts of the observational and theoretical aspects of this black hole. Topics range from the properties of the Schwarzschild metric and the collapse of a black hole, to quantum gravity, and from the structure of the Galaxy to accretion of matter and the emission properties of the Galactic Center black hole.

Introduction to General Relativity-Ronald Adler 1975

On the Revolutions of Heavenly Spheres-Nicolaus Copernicus 2010-08-27 The Ptolemaic system of the universe, with the earth at the center, had held sway since antiquity as authoritative in philosophy, science, and church teaching. Following his observations of the heavenly bodies, Nicolaus Copernicus (1473-1543) abandoned the geocentric system for a heliocentric model, with the sun at the center. His remarkable work, On the Revolutions of Heavenly Spheres, stands as one of the greatest intellectual revolutions of all time, and profoundly influenced, among others, Galileo and Sir Isaac Newton.

Neutron Star-Larry Niven 1978-01

Physics of Black Holes-Eleftherios Papantonopoulos 2009-01-28 Black Holes are still considered to be among the most mysterious and fascinating objects in our universe. Awaiting the era of gravitational astronomy, much progress in theoretical modeling and understanding of classical and quantum black holes has already been achieved. The present volume serves as a tutorial, high-level guided tour through the black-hole landscape: information paradox and blackhole thermodynamics, numerical simulations of black-hole formation and collisions, braneworld scenarios and stability of black holes with respect to perturbations are treated in great detail, as is their possible occurrence at the LHC. An outgrowth of a topical and tutorial summer school, this extensive set of carefully edited notes has been set up with the aim of constituting an advanced-level, multi-authored textbook which meets the needs of both postgraduate students and young researchers in the fields of modern cosmology, astrophysics and (quantum) field theory.

Neutron Star Crust-Carlos Bertulani 2012-01-01 Neutron stars are gold mines for the study of nuclear systems under extreme conditions of density and isospin asymmetry. Spanning many orders of magnitude in density and pressure, neutron stars display exotic phases that cannot be realized under normal laboratory conditions. Whereas the most common perception of a neutron star is that of a uniform system of neutrons packed to densities that may exceed that of normal nuclei, the reality is far more complex and much more interesting. To illustrate this more exciting reality, the editors of this book contacted leaders in the field of neutron-star physics with expertise ranging from nuclear structure to stellar dynamics. They asked each expert to communicate the successes of the past and the challenges of the future in

a way that will continue to foster dialogue and promote collaborations between the astrophysics and the nuclear physics communities.

On the Connexion of the Physical Sciences-Mary Somerville 1834

Black Holes, White Dwarfs, and Neutron Stars-Stuart L. Shapiro 2008-11-20 This self-contained textbook brings together many different branches of physics--e.g. nuclear physics, solid state physics, particle physics, hydrodynamics, relativity--to analyze compact objects. The latest astronomical data is assessed. Over 250 exercises.

Compact Stellar X-ray Sources-Walter Lewin 2006-04-06 X-ray astronomy is the prime available window on astrophysical compact objects: black holes, neutron stars and white dwarfs. New observational opportunities have led to an explosion of knowledge in this field. This book provides a comprehensive overview of the astrophysics of compact objects that emit X-rays. Sixteen chapters written by the foremost experts in the field cover the observations and the astrophysical interpretation of these objects. Topics covered include binary systems, gamma ray burst sources, anomalous X-ray pulsars, super-soft sources, and enigmatic fast X-ray transients. Further chapters are dedicated to isolated neutron stars and the X-ray source populations of globular clusters. The properties of X-ray binaries are discussed in depth in chapters on quasi-periodic oscillations and related aperiodic X-ray variability, X-ray bursts, black holes, and relativistic jets. This is a valuable reference for both graduate students and active researchers.

Isolated Neutron Stars: From the Surface to the Interior-Silvia Zane 2007-05-22 This book is a collation of the contributions presented at a major conference on isolated neutron stars held in London in April 2006. Forty years after the discovery of radio pulsars it presents an up-to-date description of the new vision of isolated neutron stars that has emerged in recent years. The great variety of isolated neutron stars, from pulsars to magnetars, is well covered by descriptions of recent observational results and presentations of the latest theoretical interpretation of these data.

The Internal Constitution of the Stars-Arthur S. Eddington 1988-01-28 A reissue of a classic work that recognized and established our basis for understanding the nature of the structure and constitution of the stars. Features a preface by S. Chandrasekhar.

Black Holes and Time Warps-Kip Thorne 1994 Examines such phenomena as black holes, wormholes, singularities, gravitational waves, and time machines, exploring the fundamental principles that control the universe.

Solar Astrophysics-Peter V. Foukal 2008-09-26 This revised edition of Solar Astrophysics describes our current understanding of the sun - from its deepest interior, via the layers of the directly observable atmosphere to the solar wind, right out to its farthest extension into interstellar space. It includes a comprehensive account of the history of solar astrophysics, along with an overview of the key instruments throughout the various periods. In contrast to other books on this topic, the choice of material deals evenhandedly with the entire scope of important topics covered in solar research. The authors make the advances in our understanding of the sun accessible to students and non-specialists by way of careful use of relatively simple physical concepts. The book offers an incisive, reliable, and well-planned look at all that is fascinating and new in studies of the sun.

Black Holes-Kip S. Thorne 1986-01-01 A pedagogical introduction to the physics of black holes. The membrane paradigm represents the four-dimensional spacetime of the black hole's "event horizon" as a two-dimensional membrane in three-dimensional space, allowing the reader to understand and compute the behavior of black holes in complex astrophysical environments.

Introduction to the Theory of Relativity-Peter Gabriel Bergmann 2008-06 Comprehensive coverage of special theory (frames of reference, Lorentz transformation, more), general theory (principle of equivalence, more) and unified theory (Weyl's gauge-invariant geometry, more.) Foreword by Albert Einstein.

The Mathematical Theory of Relativity-A. S. Eddington 2020-07-08 This book has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. So that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published. Hence any marks or annotations seen are left intentionally to preserve its true nature.

The Source of the Blue Nile-Terje Oestigaard 2014-09-26 Ethiopia has a rich and fascinating cultural heritage structured around water. The River Nile has been seen by many as the most important river in the world, and the secrets of the sources of the Nile and their mysteries have, from the dawn of civilization, attracted philosophers, emperors and explorers searching for answers. The source of the Blue Nile, Gish Abay, is believed to be the outlet of the biblical river Gihon, flowing directly from Paradise, linking this world with Heaven. The holiness of Abay (the Blue Nile) and its source in particular still has an important role in the Ethiopian Orthodox Church. In the Lake Tana region, there are also numerous other myths, traditions and rituals concerning the river. Several of the island monasteries are incredibly holy, and indigenous practices and sacrifices to the river are still conducted. The most important celebration in the Ethiopian Orthodox Church is the Timkat festival, which is an annual commemoration of the importance of baptism. Despite the importance of the River Nile from antiquity to present-day practices and beliefs in Ethiopian Orthodox Christianity, very little research has been conducted on the cultural and religious aspects of the Blue Nile in general and its source, Gish Abay, and Lake Tana in Ethiopia in particular. This book combines historic sources and new empirical ethnography, presenting parts of this cultural heritage and the traditions of water along the Blue Nile.

Spacetime and Geometry-Sean M. Carroll 2019-07-31 Spacetime and Geometry is an introductory textbook on general relativity, specifically aimed at students. Using a lucid style, Carroll first covers the foundations of the theory and mathematical formalism, providing an approachable introduction to what can often be an intimidating subject. Three major applications of general relativity are then discussed: black holes, perturbation theory and gravitational waves, and cosmology. Students will learn the origin of how spacetime curves (the Einstein equation) and how matter moves through it (the geodesic equation). They will learn what black holes really are, how gravitational waves are generated and detected, and the modern view of the expansion of the universe. A brief introduction to quantum field theory in curved spacetime is also included. A student familiar with this book will be ready to tackle research-level problems in gravitational physics.

Advanced Accelerator Concepts-Jonathan S. Wurtele 1993 This Proceedings contains the papers presented at the 3rd Workshop on Advanced Accelerators. Some of the topics include; laser and particle beam wakefield acceleration, plasma lenses, ion channel transport, high-power RF sources, two-beam accelerators, beam-beam interaction... FROM LONG DESCRIPTION

Convex Analysis and Optimization-Dimitri P. Bertsekas 2003

Through Science to Philosophy-Herbert Dingle 1937

The PSMF Diet-Spencer Rowles 2020-01-25 The PSMF DIET or Protein Sparing Modified Fast is a ketosis-based way of eating designed to invoke rapid and significant weight loss in just weeks with minimal exercise. There's ONE big reason why you're here reading this message right now...

You're either a man or woman who would like to lose weight, but you also want to do it in a safer and simplistic way. As you probably already know by now, if you want to lose those pesky pounds of fat off your body, most people will say you have to sweat it all off at the gym, or you have to eat a diet that's so tasteless and boring...that it makes you not want to do anything to lose weight at all. I wanted to show people how I did it with this breakthrough guide, PSMF DIET - THE STEP-BY-STEP BEGINNERS GUIDE TO PROTEIN SPARING MODIFIED FASTING. This Guide shows you exactly how the PSMF Diet can not only be a diet for you but become a life-changing achievement. And the good news is, the "PSMF DIET - STEP-BY-STEP BEGINNERS GUIDE" you'll discover in this amazing guide is not only easy to follow but contains all the information you need to succeed in losing weight quickly with a protein sparing modified fast. PSMF DIET - STEP-BY-STEP GUIDE TO PROTEIN SPARING MODIFIED FASTING gives you all the tools, methods, and information you need in order to lose weight... And these methods will work for men or women of any age.Discover what the PSMF Diet is about and why it is the best choice to lose weight rapidly. By taking action, you'll begin to notice the fat melt off your body, but also learn why it can be the safest diet you have ever done!Learn how to be successful on the PSMF Diet. Dieting success involves preparing and having a plan to move forward. I cover everything you need to know to make sure you are successful!I give you a successful and easy to follow Meal Planning tips. The best news of all, I teach you what kinds of foods to put on your plate with your Protein Sparing Modified Fast.Discover Apps that can help you be successful while on the PSMF Diet. You will learn which apps can be helpful in tracking your Macros and aiding you with your weight loss journey.Are you hooked on sweets and junk food? You'll discover how easy the PSMF Diet is when I teach you the simple rules of following it.You'll get access to a Checklist that helps prepare you for success. Wondering what you need for this diet? I give you a list of everything that will help you on your journey.Find out how to keep the weight off after the PSMF Diet. Learn common reasons why someone might regain weight after the PSMF Diet and how you can make sure you don't make the same mistakes.The Complete Guide to the PSMF Diet Ebook - Over 128 pages with photos!

Beach Processes and Sedimentation-Paul D. Komar 1998 Introduces beach processes within an approach that balances an engineering perspective against a purely geological one.Provides an up-to-date review of the current understanding of beach processes as well as applications to solve coastal problems (erosion, management issues, etc.). Discusses issues related to beach erosion and other processes. The second edition ofBeach Processes and Sedimentation has been updated to include information gathered from two decades of science and engineering in the field, reflecting the vast increase in knowledge since the first edition. Discusses the rise of coastal zone management as well as patterns of wave transformations and dissipation within the surf zone, and how these water motions produce cross-shore movements of sediment resulting in beach-profile variations.An essential reference book for many readers: from beach front property owners to politicians contending with beachfront erosion to engineers addressing beachfront reclamation projects.

Relativity and Cosmology-William J. Kaufmann 1977 Discusses the principles and applications of gravitational and relativity theory, paying particular attention to recent observations

Experimental Measurements-Norman Charles Barford 1990