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1 Department of Physics, Indian Institute of Science, Bangalore 560012, India. 2 Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore 560012, India. *Corresponding author.

Bubbles in superfluid helium containing six and eight electrons: Soft, quantum nanomaterial
Your browser does not support the audio element. For Lisa Nicholas-Kandel, the route to owning her own restaurant started small- with just a batch of Baklava. The ...

Episode 148: The Greek Kitchen
Next week ' s season finale has a lot of work to do if it ' s going to deliver the satisfactory answers a wonderfully inventive show deserves... Another fun episode that goes big on exposition ...

Loki episode 5 recap: so many Lokis
John Holt was one of the leaders of that drive to make educational institutions more child centered rather than teacher centered. In fact, his books How Children Fail and How Children Learn ...

John Holt: Advocate of at Home Schooling
Fetisov, Y. K. Serov, V. N. Fetisov, L. Y. Makovkin, S. A. Viehland, D. and Srinivasan, G. 2016. A magnetoelectric composite based signal generator. Applied Physics ...

Basic Electronics for Scientists and Engineers
This has been described as perhaps the most sublime philosophical question of all. This hour, we try to answer it. But as we do, we realize that it's not just a philosophical quandary; it's a ...

A Show About Nothing (Really!)
Did you ask a bunch of questions about why Nemo and Dory can talk, or about the physics of the doors that sure seem to be hopping between parallel dimensions in Monsters Inc.? Anyway. Luca and ...

LUCA : STREAM IT OR SKIP IT?
New fire commissioner fleshes out plan to reduce response time to medical emergencies: " Instead of adding ambulances to the Chicago Fire Department ' s fleet, Annette Nance-Holt will buy smaller ...

THEY'RE LINING UP FOR BIDEN — VIOLENCE ENVELOPS CHICAGO — BIPARTISAN BUST
Congressman Rush Holt (D-NJ) is preparing to drop a new version of the "Voter Confidence and Increased Accessibility Act" legislation which met so much resistance during the last Congress from both ...

New Version of Holt's Election Reform Bill Would Institutionalize Touch-Screen Voting, Secret Software
John Holt, another American educator and author ... They think up possible answers, they make theories, they hypothesise, and then they test theories by asking questions or by further observations ...

Rediscovering the born scientists
" We know so little about the distribution of firearms sold on the dark web that it ' s kind of a black hole, similar to illicit pharmaceuticals and narcotics, " said Holt " The more we ...

People Are Selling Weapons on the Dark Web
June 22, 2021 • Our famous Summer Reader Poll is back! It's been 10 years since our original sci-fi and fantasy poll, and the field has changed so much since then — so tell us about your ...

Books
I only wish I had my own N64, so I could have practiced and not get stomped every time we played. — Kris Holt, Associate Editor The core gameplay loop of " shoot, charge, lock-on, blast, dodge " is ...

Take a look back at Engadget's favorite Nintendo 64 games
I am an environmental microbiologist and postdoctoral researcher working with organisms in different ecosystems to answer questions ... in mathematics, physics, chemistry and biology and wanted ...

Meet the researcher whose explosive work aims to keep our soils healthy
During a question and answer period after a speech at a Black History Month event last night sponsored by the University of California Santa Cruz, Congresswoman Maxine Waters (D-CA) announced that she ...

The principal goals of the study were to articulate the scientific rationale and objectives of the field and then to take a long-term strategic view of U.S. nuclear science in the global context for setting future directions for the field. Nuclear Physics: Exploring the Heart of Matter provides a long-term assessment of an outlook for nuclear physics. The first phase of the report articulates the scientific rationale and objectives of the field, while the second phase provides a global context for the field and its long-term priorities and proposes a framework for progress through 2020 and beyond. In the second phase of the study, also developing a framework for progress through 2020 and beyond, the committee carefully considered the balance between universities and government facilities in terms of research and workforce development and the role of international collaborations in leveraging future investments. Nuclear physics today is a diverse field, encompassing research that spans dimensions from a tiny fraction of the volume of the individual particles (neutrons and protons) in the atomic nucleus to the enormous scales of astrophysical objects in the cosmos. Nuclear Physics: Exploring the Heart of Matter explains the research objectives, which include the desire not only to better understand the nature of matter interacting at the nuclear level, but also to describe the state of the universe that existed at the big bang. This report explains how the universe can now be studied in the most advanced colliding-beam accelerators, where strong forces are the dominant interactions, as well as the nature of neutrinos.

This report provides Association of College and Research Libraries (ACRL) leaders and the academic community with a clear view of the current state of the literature on value of libraries within an institutional context, suggestions for immediate "Next Steps" in the demonstration of academic library value, and a "Research Agenda" for articulating academic library value. Its focus is to help librarians understand, based on professional literature, the current answer to the question, "How does the library advance the missions of the institution?" This report is also of interest to higher educational professionals external to libraries, including senior leaders, administrators, faculty, and student affairs professionals.

Often, a new area of science grows at the confines between recognised subject divisions, drawing upon techniques and intellectual perspectives from a diversity of fields. Such growth can remain unnoticed at first, until a characteristic fami ly of effects, described by appropriate key words, has developed, at which point a distinct subject is born. Such is very much the case with atomic 'giant resonances'. For a start, their name itself was borrowed from the field of nuclear collective resonances. The energy range in which they occur, at the juncture of the extreme UV and the soft X-rays, remains to this day a meeting point of two different experimental techniques: the grating and the crystal spectrometer. The impetus of synchrotron spectroscopy also played a large part in developing novel methods, described by many acronyms, which are used to study 'giant resonances' today. Finally, although we have described them as 'atomic' to differentiate them from their counterparts in Nuclear Physics, their occurrence on atomic sites does not inhibit their existence in molecules and solids. In fact, 'giant resonances' provide a new unifying theme, cutting accross some of the traditional scientific boundaries. After much separate development, the spectroscopies of the atom in various environments can meet afresh around this theme of common interest. Centrifugal barrier effects and 'giant resonances' proper emerged almost simultaneously in the late 1960's from two widely separated areas of physics, namely the study of free atoms and of condensed matter.

With the same design and feature sets as the market leading Precalculus, 8/e, this addition to the Larson Precalculus series provides both students and instructors with sound, consistently structured explanations of the mathematical concepts. Designed for a two-term course, this text contains the features that have made Precalculus a complete solution for both students and instructors: interesting applications, cutting-edge design, and innovative technology combined with an abundance of carefully written exercises. In addition to a brief algebra review and the core precalculus topics, PRECALCULUS WITH LIMITS covers analytic geometry in three dimensions and introduces concepts covered in calculus. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

A concise introduction to numerical methodsand the mathematicalframework neededto understand their performance Numerical Solution of Ordinary Differential Equationspresents a complete and easy-to-follow introduction to classicaltopics in the numerical solution of ordinary differentialequations. The book's approach not only explains the presentedmathematics, but also helps readers understand how these numericalmethods are used to solve real-world problems. Unifying perspectives are provided throughout the text, bringingtogether and categorizing different types of problems in order tohelp readers comprehend the applications of ordinary differentialequations. In addition, the authors' collective academic experienceensures a coherent and accessible discussion of key topics,including: Euler's method Taylor and Runge-Kutta methods General error analysis for multi-step methods Stiff differential equations Differential algebraic equations Two-point boundary value problems Volterra integral equations Each chapter features problem sets that enable readers to testand build their knowledge of the presented methods, and a relatedWeb site features MATLAB® programs that facilitate theexploration of numerical methods in greater depth. Detailedreferences outline additional literature on both analytical andnumerical aspects of ordinary differential equations for furtherexploration of individual topics. Numerical Solution of Ordinary Differential Equations isan excellent textbook for courses on the numerical solution ofdifferential equations at the upper-undergraduate and beginninggraduate levels. It also serves as a valuable reference forresearchers in the fields of mathematics and engineering.

"Published by OpenStax College, Calculus is designed for the typical two- or three-semester general calculus course, incorporating innovative features to enhance student learning. The book guides students through the core concepts of calculus and helps them understand how those concepts apply to their lives and the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Volume 1 covers functions, limits, derivatives, and integration."--BC Campus website.

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