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The structural mechanics of proteins that fold into functional shapes, polymers that aggregate and form clusters, and organic macromolecules that bind to inorganic matter can only be understood ...

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The COVID-19 pandemic has caused more than 600,000 deaths in the United States since the start of 2020 and more than 4 million globally.

[Scientists identify existing drugs that may inhibit SARS-CoV-2 virus](#)

New drug target found for future and current coronaviruses. Scientists are already preparing for a possible next coronavirus pandemic to strike, keeping with the seven-year pattern since 2004. In ...

["God Forbid We Need This, but We Will Be Ready" - Scientists Prepare for Next Coronavirus Pandemic, Maybe in 2028?](#)

Scientists have found that a drug used to treat colorectal cancer can inhibit one of the main proteins in SARS-CoV-2 ...

[Cancer and Seizure Medications Could Aid in the Fight against COVID-19](#)

Due to the prevailing COVID - 19 pandemic related circumstances in India, the date of JEE (Advanced) 2021 has remained unannounced.

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Artificial intelligence (AI) is able to recognize the biological activity of natural products in a targeted manner, as researchers at ETH Zurich have demonstrated. Moreover, AI helps to find molecules ...

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The ceremony completes the six-month long program where students learn subjects ranging from nuclear physics, advanced mathematics, thermodynamics, and chemistry. He congratulated the students for ...

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Credits earned in this course cannot be used to fulfill the advanced Chemistry elective ... and statistical thermodynamics. Pre-Req: MATH 2310 Calculus III, CHEM 1220 Chemistry II, PHYS 1410 Physics I ...

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Scientists at the Department of Energy's Oak Ridge National Laboratory and the University of Tennessee, Knoxville, have found a way to simultaneously increase the strength and ductility of an alloy by ...

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Skoltech biologists and their colleagues from Koltzov Institute of Developmental Biology, Russia, and the Chemistry Department of Taras Shevchenko University in Ukraine have discovered fairly unlikely ...

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Skoltech biologists and their colleagues from Koltzov Institute of Developmental Biology, Russia, and the Chemistry Department of Taras Shevchenko University in Ukraine have discovered fairly unlikely ...

~~Scientists discover drug candidates for treating liver fibrosis among pesticides~~

The Netherlands and its major cities are known internationally for advanced policy-making about the circular economy. Various joint ventures involving scientists ... accumulates in holding tanks in ...

~~Paved with good intentions~~

Several cancers grow through immunosuppression, making immunotherapy a promising approach to treating cancers. But several approaches against one highly sought-after target molecule for such treatment ...

~~Closer to cure: New imaging method tracks cancer treatment efficacy in preclinical studies~~

A student must also take at least one additional advanced lecture courses ... The minimum requirements for a chemistry major are twenty-five (25) credits of science major chemistry courses, two ...

~~Chemistry / Biochemistry~~

A study performed by researchers at the Institute for Advanced Chemistry of Catalonia (IQAC ... diagnosis or treatment of some diseases. Tyrosine kinases are a set of enzymes that are essential ...

Molecular Driving Forces, Second Edition E-book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes. It demonstrates how the complex behaviors of molecules can result from a few simple physical processes, and how simple models provide surprisingly accurate insights into the workings of the molecular world. Widely adopted in its First Edition, Molecular Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts. The Second Edition includes two brand new chapters: (1) "Microscopic Dynamics" introduces single molecule experiments; and (2) "Molecular Machines" considers how nanoscale machines and engines work. "The Logic of Thermodynamics" has been expanded to its own chapter and now covers heat, work, processes, pathways, and cycles. New practical applications, examples, and end-of-chapter questions are integrated

throughout the revised and updated text, exploring topics in biology, environmental and energy science, and nanotechnology. Written in a clear and reader-friendly style, the book provides an excellent introduction to the subject for novices while remaining a valuable resource for experts.

The purpose of this volume is to present the latest planetary studies of an international body of scientists concerned with the physical and chemical aspects of terrestrial planets. In recent years planetary science has developed in leaps and bounds. This is a result of the application of a broad range of scientific disciplines, particularly physical and chemical, to an understanding of the information received from manned and unmanned space exploration. The first five chapters expound on many of the past and recent observations in an attempt to develop meaningful physical-chemical models of planetary formation and evolution. For any discussion of the chemical processes in the solar nebula, it is important to understand the boundary conditions of the physical variables. In Chapter 1, Safarov and Vitjazev have laid down explicitly all the physical constraints and the problems of time-dependence of nebular evolutionary processes. Planetary scientists and students will find in this chapter a collection of astrophysical parameters on the transfer of angular momentum, formation of the disk and the gas envelope, nebular turbulence, physical mixing of particles of various origins and growth of planetesimals. The authors conclude their work with important information on evolution of terrestrial planets. Although symbols are defined in the text of the article, readers who are not familiar with the many symbols and abbreviations in astrophysical literature will find it useful to consult the Appendix for explanations.

Master the principles of thermodynamics with this comprehensive undergraduate textbook, carefully developed to provide students of chemical engineering and chemistry with a deep and intuitive understanding of the practical applications of these fundamental ideas and principles. Logical and lucid explanations introduce core thermodynamic concepts in the context of their measurement and experimental origin, giving students a thorough understanding of how theoretical concepts apply to practical situations. A broad range of real-world applications relate key topics to contemporary issues, such as energy efficiency, environmental engineering and climate change, and further reinforce students' understanding of the core material. This is a carefully organized, highly pedagogical treatment, including over 500 open-ended study questions for discussion, over 150 varied homework problems, clear and objective standards for measuring student progress, and a password-protected solution manual for instructors.

In this clear and concise introduction to thermodynamics and statistical mechanics the reader, who will have some previous exposure to thermodynamics, will be guided through each of the two disciplines separately initially to provide an in-depth understanding of the area and thereafter the connection between the two is presented and discussed. In addition, mathematical techniques are introduced at appropriate times, highlighting such use as: exact and inexact differentials, partial derivatives, Caratheodory's theorem, Legendre transformation, and combinatorial analysis. * Emphasis is placed equally on fundamentals and applications * Several problems are included

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