

Oxygen The Molecule That Made The World

Molecules That Amaze Us Understanding the Properties of Matter Complete Biology Concise Encyclopedia of Plastics Chemical Story of Olive Oil The Machinery of the Universe Journal of the Franklin Institute Proceedings of the Psychological Society of Great Britain, 1875-1879 ; with a Preface The Encyclopædia Britannica The Encyclopaedia Britannica Bk. 6. The apocalypse (don't panic) Johnson's New Universal Cyclopædia : a Scientific and Popular Treasury of Useful Knowledge The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science Druggists' Circular and Chemical Gazette The Encyclopaedia Britannica Chambers' Encyclopædia Johnson's (revised) Universal Cyclopaedia The American Journal of Science and Arts What is Electricity? The Teachers' and Students' Library Paul May Michael de Podesta W. R. Pickering Donald V. Rosato Richard Blatchly Amos Emerson Dolbear Franklin Institute (Philadelphia, Pa.) Psychological Society of Great Britain Thomas Spencer Baynes Thomas Spencer Baynes Ezra Niesen John Trowbridge George Dallas Lind

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this new book is by two knowledgeable and expert popularizers of chemistry and deals exclusively with molecules and compounds rather than with the simpler atoms and elements it is based on the very successful molecule of the month website that was begun by paul may fifteen years ago and to which his co author simon cotton has been a frequent contributor the authors strike an excellent balance between introducing the novice to the world of molecules while also keeping the expert chemist interested i highly recommend this book to all readers it will vastly expand your knowledge and horizons of chemistry and the human ingenuity that surrounds it from the foreword by dr eric scerri ucla los angeles website ericscerri.com author of the periodic table its story and its significance and several other books on the elements and the periodic table the world is composed of molecules some are synthetic while many others are products of nature molecules that amaze us presents the stories behind many of the most famous and infamous molecules that make up our modern world examples include the molecule responsible for the spicy heat in chilies capsaicin the world s first synthetic painkiller aspirin the pigment responsible for the color of autumn leaves carotene the explosive in dynamite nitroglycerine the antimalarial drug quinine the drug known as speed methamphetamine and many others other molecules discussed include caffeine adrenaline cholesterol cocaine digitalis dopamine glucose insulin methane nicotine oxytocin penicillin carbon dioxide limonene and testosterone in all the book includes 67 sections each describing a different molecule what it does how it is made and why it is so interesting written by experts in the field the book is

accessible and easy to read it includes amusing anecdotes historical curiosities and entertaining facts about each molecule thereby balancing educational content with entertainment the book is heavily illustrated with relevant photographs images and cartoons the aim being both to educate and entertain

understanding the properties of matter 2nd edition takes a unique phenomenological approach to the presentation of matter materials and solid state physics after an overview of basic ideas and a reminder of the importance of measurement the author considers in turn gases solids liquids and phase changes for each topic the focus is on what happens after a preliminary examination of data on the properties of matter the author raises then addresses a series of questions concerning the data it is only in answering these questions that he adopts the theoretical approach to the properties of matter this approach can reawaken in readers the fascination for the subject that inspired some of the greatest physicists of our age examples and extensive exercises reinforce the concepts a supporting site furnishes for free download a plethora of additional materials including supplementary chapters on the band theory of solids and the magnetic properties of solids copies of all the data tables used in the book in pdf and spreadsheet formats enlarged copies of all figures a simple molecular dynamics simulation animations illustrating important features of key equations answers to the end of chapter exercises understanding the properties of matter is an entertaining and innovative text accessible at the undergraduate level

ron pickering is a highly experienced teacher with many years experience of maintaining students interest in biology known for his informative motivating style and straightforward explanations he maintains the same high level of interest and accessibility in this new book the content of complete biology has been drawn from an analysis of all syllabuses with added material to ensure a match for igcse the content is sufficient to stretch your students aiming for the top grades without sacrificing ease of understanding double page spreads increase accessibility questions on every spread for students to check their understanding and learning objectives at the beginning to quickly identify relevant pages plenty of examination style questions set at two levels provides an excellent foundation for students wishing to progress to a level biology allows students to appreciate the everyday importance of biology

provides an overview of plastics as well as world of plastic reviews

despite the growing interest in olive oil most people know very little about what it is or how it is made this book provides a comprehensive treatment of olive oil from the tree to table from a molecular and personal perspective growers often do not know what is happening at a molecular level or why certain practices produce superior or inferior results for example why adjusting a temperature rewards them with winning oils this book aims to provide some of the answers as well as the importance of the chemicals responsible for the flavour and health effects readers will also get a deeper understanding of what makes an extra virgin olive oil authentic and how scientists are helping to fight fraud regarding this valuable commodity including anecdotes from growers of olives and producers of oils the authors provide an accessible text for a wide audience from food science students to readers interested in the human story of olive oil production

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