

OCR A A-LEVEL ORGANIC CHEMISTRY

Complete Notes for
Modules 4 and 6

Alkenes 1

Chemistry

Alkenes are unsaturated hydrocarbons (contain a carbon-carbon double bond)



Alkenes have a high C=C to C-H bond ratio
C=C is 602 kJ mol⁻¹
C-H is 412 kJ mol⁻¹
Therefore a molecule with a C=C bond is more reactive than a molecule with only C-H bonds

Alkenes are unsaturated hydrocarbons (contain a carbon-carbon double bond)

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Polymers

Polymers are long chains of repeating units (monomers)

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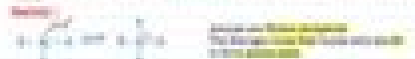
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Amines and Amides

Amines and amides are organic compounds containing nitrogen



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Phenols

Phenols are organic compounds containing a hydroxyl group attached to a benzene ring



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Ocr Chemistry B June 2014

Huangqi Zhang



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Oil Spill Environmental Forensics Case Studies Scott Stout, Zhendi Wang, 2017-10-22 *Oil Spill Environmental Forensics Case Studies* includes 34 chapters that serve to present various aspects of environmental forensics in relation to real world oil spill case studies from around the globe. Authors representing academic government and private researcher groups from 14 countries bring a diverse and global perspective to this volume. *Oil Spill Environmental Forensics Case Studies* addresses releases of natural gas methane automotive gasoline and other petroleum fuels lubricants vegetable oils paraffin waxes bitumen manufactured gas plant residues urban runoff and of course crude oil the latter ranging from light Bakken shale oil to heavy Canadian oil sands oil. New challenges surrounding forensic investigations of stray gas in the shallow subsurface volatiles in air dissolved chemicals in water including passive samplers and biological tissues associated with oil spills are included as are the effects and long term oil weathering long term monitoring in urbanized and non urbanized environments fate and transport forensic historical research new analytical and chemical data processing and interpretation methods. Presents cases in each chapter on the application of specific oil spill environmental forensic techniques. Features chapters written by international experts from both academia and industry. Includes relevant concepts and theories elucidated for each theme.

Exascale Scientific Applications Tjerk P. Straatsma, Katerina B. Antypas, Timothy J. Williams, 2017-11-13 From the Foreword The authors of the chapters in this book are the pioneers who will explore the exascale frontier. The path forward will not be easy. These authors along with their colleagues who will produce these powerful computer systems will with dedication and determination overcome the scalability problem discover the new algorithms needed to achieve exascale performance for the broad range of applications that they represent and create the new tools needed to support the development of scalable and portable science and engineering applications. Although the focus is on exascale computers the benefits will permeate all of science and engineering because the technologies developed for the exascale computers of tomorrow will also power the petascale servers and terascale workstations of tomorrow. These affordable computing capabilities will empower scientists and engineers everywhere.

Thom H Dunning Jr Pacific Northwest National Laboratory and University of Washington Seattle Washington USA This comprehensive summary of applications targeting Exascale at the three DoE labs is a must read.

Rio Yokota Tokyo Institute of Technology Tokyo Japan Numerical simulation is now a need in many fields of science technology and industry. The complexity of the simulated systems coupled with the massive use of data makes HPC essential to move towards predictive simulations. Advances in computer architecture have so far permitted scientific advances but at the cost of continually adapting algorithms and applications. The next technological breakthroughs force us to rethink the applications by taking energy consumption into account. These profound modifications require not only anticipation and sharing but also a paradigm shift in application design to ensure the sustainability of developments by guaranteeing a certain independence of the applications to the profound modifications of the architectures. It is the passage

from optimal performance to the portability of performance It is the challenge of this book to demonstrate by example the approach that one can adopt for the development of applications offering performance portability in spite of the profound changes of the computing architectures Christophe Calvin CEA Fundamental Research Division Saclay France Three editors one from each of the High Performance Computer Centers at Lawrence Berkeley Argonne and Oak Ridge National Laboratories have compiled a very useful set of chapters aimed at describing software developments for the next generation exa scale computers Such a book is needed for scientists and engineers to see where the field is going and how they will be able to exploit such architectures for their own work The book will also benefit students as it provides insights into how to develop software for such computer architectures Overall this book fills an important need in showing how to design and implement algorithms for exa scale architectures which are heterogeneous and have unique memory systems The book discusses issues with developing user codes for these architectures and how to address these issues including actual coding examples Dr David A Dixon Robert Ramsay Chair The University of Alabama Tuscaloosa Alabama USA [Alternative Energy Sources Part A](#) Jamal Manassah,2014-06-16 [Alternative Energy Sources Part A](#) **Interdisciplinary Explorations of Postmortem Interaction** Estella Weiss-Krejci,Sebastian Becker,Philip Schwyzer,2022-06-23 In the present as in the past the dead have been deployed to promote visions of identity as well as ostensibly wider human values Through a series of case studies from ancient Egypt through prehistoric historic and present day Europe this book discusses what is constant and what is locally and historically specific in our ways of interacting with the remains of the dead their objects and monuments Postmortem interaction encompasses not only funerary rituals and intergenerational engagement with forebears but also concerns encounters with the dead who died centuries and millennia ago Drawing from a variety of disciplines such as archaeology bioarchaeology literary studies ancient Egyptian philology and sociocultural anthropology this volume provides an interdisciplinary account of the ways in which the dead are able to transcend temporal distances and engender social relationships Until quite recently literary sciences and archaeology were generally regarded as incommensurable in their aims methodologies and source material Although archaeologists and literary critics have been increasingly willing to borrow concepts and terminology from the other discipline this book is one examples of a genuinely collaborative endeavor This is an open access book **Integrated Clinical Orthodontics** Vinod Krishnan,Anne Marie Kuijpers-Jagtman,2023-09-13 Integrates orthodontic diagnosis and treatment into the wider healthcare of the patient to achieve the highest possible standards of care Integrated Clinical Orthodontics offers an overview of clinical orthodontic theory and practice to equip clinicians to take an integrated approach to orthodontic practice It presents the problems of orthodontics in an interdisciplinary context to describe how the potential complexity of dentofacial problems the medical histories of patients and a host of other factors contribute to orthodontic outcomes The second edition has been expanded and thoroughly updated with new chapters and following an organized approach to the role of the orthodontist as part of a team Cases in the

book include orofacial deformities sleep disorders esthetic smile creation and temporomandibular joint problems Orthodontic diagnosis and treatment are integrated into the wider health of the patient including orthopedics neurology pediatrics genetics and psychology and the result is a modern adaptable approach that places the patient and their needs at its center to achieve the highest possible standard of patient care Readers of the second edition of Integrated Clinical Orthodontics will also find New chapters on neuromuscular disorders customized orthodontics artificial intelligence ethics and patient data Expanded content on special care in dentistry Guidance for the clinical interactions between orthodontics and other areas of dentistry and medicine Clinical implications and applications of the integrated approach in every chapter Integrated Clinical Orthodontics is an essential resource for clinical orthodontists and specialists in related medical and dental fields who wish to take the holistic view of orthodontic practice **Cone Penetration Testing 2022** Guido Gottardi, Laura

Tonni, 2022-06-23 This volume contains the proceedings of the 5th International Symposium on Cone Penetration Testing CPT 22 held in Bologna Italy 8 10 June 2022 More than 500 authors academics researchers practitioners and manufacturers contributed to the peer reviewed papers included in this book which includes three keynote lectures four invited lectures and 169 technical papers The contributions provide a full picture of the current knowledge and major trends in CPT research and development with respect to innovations in instrumentation latest advances in data interpretation and emerging fields of CPT application The paper topics encompass three well established topic categories typically addressed in CPT events Equipment and Procedures Data Interpretation Applications Emphasis is placed on the use of statistical approaches and innovative numerical strategies for CPT data interpretation liquefaction studies application of CPT to offshore engineering comparative studies between CPT and other in situ tests Cone Penetration Testing 2022 contains a wealth of information that could be useful for researchers practitioners and all those working in the broad and dynamic field of cone penetration testing

Green Photo-active Nanomaterials Nurxat Nuraje, Ramazan Asmatulu, Guido Mul, 2015-11-06 Providing up to date coverage of green nanomaterials and systems this book provides comprehensive information on nanostructured materials including their applications in energy and environmental sciences The book focusses on photo active nanostructured materials from the basic understanding of solar energy activation to their sustainable preparation and applications in environmental remediation and fuel production from biomass and carbon dioxide It also examines the health and environmental impacts of photo catalyst nanomaterials This book is an important reference for researchers and industrial chemists working in the fields of energy and environmental remediation *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004 [Index to IEEE Publications](#) Institute of Electrical and Electronics Engineers, 1996 Issues for 1973 cover the entire IEEE technical literature

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