

ORGANIC CHEMISTRY

TOPIC 7.

ALKENES:

General formula = C_nH_{2n}

Functional group = $C=C$ (saturated)

REACTIONS:

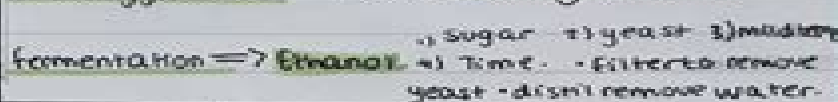
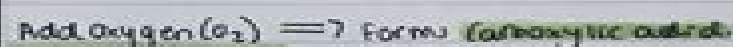


ALCOHOL:

functional group = OH^-

General formula = $C_nH_{2n+1}OH$

REACTIONS:

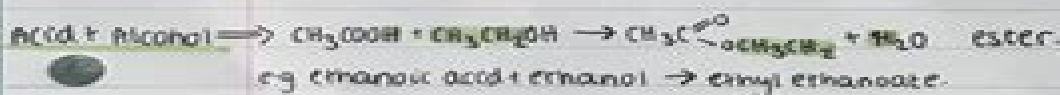


CARBOXYLIC ACIDS:

Functional group = $COOH^-$

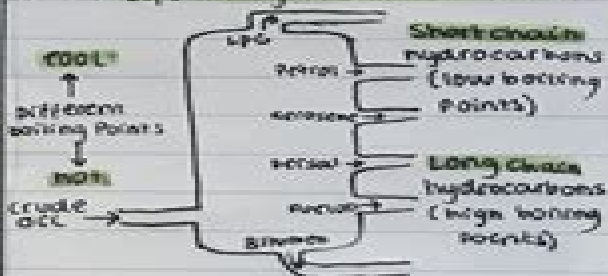
General formula = $C_nH_{2n+1}COOH$

REACTIONS:

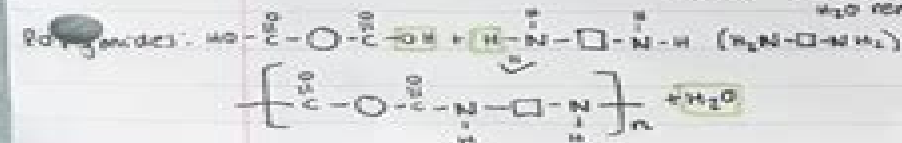
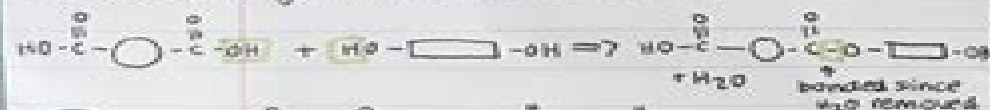
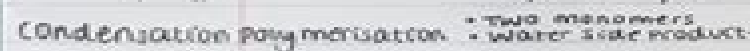
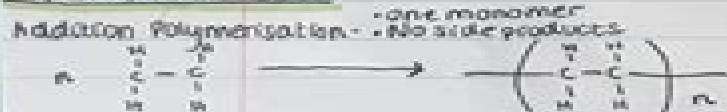


FRACTIONAL DISTILLATION:

used to separate hydrocarbon fractions.



POLYMERISATION:



CRACKING

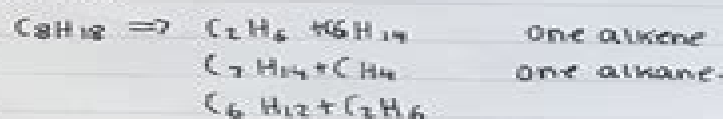
The breaking up the hydrocarbon chains which are too long from fractional distillation into shorter more useful hydrocarbons.

Two Types:

① Steam cracking: Vaporised hydrocarbon + steam

② Catalytic cracking: Vaporised hydrocarbon + catalyst

Example:



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Raffaela Di Napoli



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Chemical News and Journal of Industrial Science, 1909 *The Chemical News and Journal of Industrial Science*, 1913

The Chemical News and Journal of Physical Science, 1878 *Forensic Science* Suzanne Bell, 2025-04-23

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Innovative Methods of Teaching and Learning Chemistry in Higher Education Ingo Eilks, Bill Byers, 2009. A unique publication from the ECTN giving a comprehensive overview of innovations in university chemistry teaching from a broad European perspective.

Forensic Chemistry and Toxicology Suzanne Bell, 2022-11. Essential principles of forensic chemistry and toxicology for core crime scene evidence analysis, concisely written by expert in the field. Suzanne Bell, PhD from Los Alamos National Laboratory, then professor at Eastern Washington University and Chair of the

National Commission on Forensic Science The wealth of answers in this 6 page laminated color coded outline format including equations graphs and diagrams cannot be missed for those studying in this field and well beyond school for a quick look up and refresher QuickStudy guides are proven to boost retention and test scores and as customers attest are handy throughout a career Also buy Dr Bell s Forensic Science guide to complete the pair and add these powerful and simple to use tools to your library for a price so low it s a crime 6 page laminate guide includes Measurement Science Metrology Uncertainty Fundamentals of Statistics Assuring Data Quality Calibration Control Charts Method Validation Sampling Measurement Uncertainty MU Key Chemical Concepts Equilibrium Constants Partitioning Ionizable Centers Acidic Basic Functional Groups Diagrams Range Table Instrumentation Chromatography Performance Metrics Mass Spectrometry Spectroscopy Seized Drug Analysis Drugs as Physical Evidence Controlled Substances Act CSA Drug Classification Analytical Methods Forensic Toxicology Pharmacokinetics ADME Kinetics of Elimination Blood Breath Alcohol Common Sample Types Lab Analysis Evidence Associated with Combustion Combustion Thermodynamics of Combustion Reactions Fire Debris Analysis Forensic Investigation of Fire Deaths Explosives Firearm Discharge Residue Methods of Analysis Serial Number Restoration Trace Evidence Trace Transfer Evidence Microscopy Analysis Types of Trace Evidence Characterizing Color

Crime Laboratory Digest ,1996

Forensic Science Max M. Houck,2007-03-30 From Poe s Dupin and Doyle s

Holmes to the television hits Quincy and CSI the public s fascination with science employed to solve crimes continues and grows But this understanding of how science works in the forensic laboratory is filtered through the fictional worlds of books and television how is science really used to fight crime What techniques are used to catch criminals and free the innocent Forensic scientists work with police investigators medical personnel attorneys and others to uphold justice but their methods are often misunderstood overestimated underestimated revered or disputed Here the author answers many common questions about forensic science How is the science conducted and by whom What are the real limits and real benefits of forensic science What new techniques are emerging to catch 21st Century criminals Readers are treated to an insider s overview of the realities of forensic science Forensic Science Modern Methods of Solving Crime covers the basic concepts of forensic science and how it assists in criminal investigations Starting with a brief history of forensic science from its early days in Europe to the modern advances of today the book describes each method and presents cases that highlight the applications of the methods Houck profiles pioneers in forensic science offers an overview of such forensic topics as DNA fibers fingerprints and firearms takes readers through the collection and processing of evidence and uses frequent examples and anecdotes to illustrate all the major areas of forensic science This introduction to the field is a useful starting point for anyone wishing to learn more about the real world of forensic science

Forensic Linguistics Kanti Shukla,2025-01-07

Forensic Linguistics Solving Crimes with Language provides an in depth look at how language plays a crucial role in solving crimes We start by exploring forensic linguistics explaining complex concepts in a simple and accessible way This book aims

to answer all your questions about forensic evidence making it a valuable resource In the second half of the book we delve into crime scene investigation detailing the processes that police officials follow to gather valuable evidence This section offers an informative insight into the inner workings of crime scene investigations Our goal is to make complex topics easy to understand providing all the necessary knowledge without wasting readers time This book is especially useful for students and anyone interested in the field of forensic linguistics and crime investigation

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Eugenio Aulisa,David Gilliam,2015-06-18 A Practical Guide to Geometric Regulation for Distributed Parameter Systems provides an introduction to geometric control design methodologies for asymptotic tracking and disturbance rejection of infinite dimensional systems The book also introduces several new control algorithms inspired by geometric invariance and asymptotic attraction for a wide range of dynamical control systems The first part of the book is devoted to regulation of linear systems beginning with the mathematical setup general theory and solution strategy for regulation problems with bounded input and output operators The book then considers the more interesting case of unbounded control and sensing Mathematically this case is more complicated and general theorems in this area have become available only recently The authors also provide a collection of interesting linear regulation examples from physics and engineering The second part focuses on regulation for nonlinear systems It begins with a discussion of theoretical results characterizing solvability of nonlinear regulator problems with bounded input and output operators The book progresses to problems for which the geometric theory based on center manifolds does not directly apply The authors show how the idea of attractive invariance can be used to solve a series of increasingly complex regulation problems The book concludes with the solutions of challenging nonlinear regulation examples from physics and engineering

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Resources in

Education ,1993

The United States Catalog Mary Burnham,Carol Hurd,1928

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