

The Chemistry of Combustion and Extinction

What is combustion?

Combustion is known as the scientific term for burning. Essentially, combustion is a chemical reaction whereby oxygen combines with a substance (usually referred to as a fuel) to produce heat and light in the form of a flame. Combustion reactions occur at high temperatures. Combustion is an example of an exothermic reaction; an exothermic reaction is a type of reaction in which energy becomes released into the surroundings. The energy released is typically thermal energy, however, both light and sound energy can be released. Flames have a complex structure and a definable composition; flames are deemed to be multiform and have the ability of existing at rather low temperatures, along with extremely high temperatures. A flames emission light tends to be the result of the presence of excited particles and generally, of charged atoms, electrons and molecules. The products of combustion reactions are compounds of oxygen (O), known as oxides. The products of a complete combustion reaction involve carbon dioxide (CO₂) and water vapor (H₂O). If there is plenty of air, then complete combustion will take place. The typical equation for a complete combustion reaction is as follows:



An example of this is methane (a natural gas (CH₄)). Below is the equation of its complete combustion:

methane + oxygen → water + carbon dioxide



However, if there isn't enough oxygen or air for complete combustion to take place, incomplete combustion will instead take place. Carbon dioxide and water vapour are still produced, but, two other different products are produced, these are; carbon monoxide (CO) this is a colourless toxic gas and also particles of carbon, these can appear as smoke and soot which can cause breathing problems.

The Fire Triangle

The fire triangle is one of the simplest method of understanding the elements of fire. Although its called a fire triangle, occasionally it is called a fire tetrahedron the reason for this will be explained below. This is because in reality for things **MUST BE** present at the **SAME TIME** in order for a fire. The three main elements needed for a fire is **Air**, **Fuel** and **heat** these are frequently referred to as the "fire triangle". The occasional fourth is a **chemical chain reaction**, this is what creates the "fire tetrahedron." An important thing to remember is; if one of just any of these elements get removed, a fire no longer has the ability to burn and will be extinguished.



This is the fire triangle.



This is the fire tetrahedron.

Principles of Combustion

1. There must be Fuel to burn.
2. There must be Air to oxygen to be supplied.
3. There must be Heat to start and continue the process of combustion.

Unit 36 Forensic Fire Investigation Edexcel

**John D. DeHaan Ph.D., FABC,
FSSDip, David J. Icove Ph.D., PE**



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Forensic Fire Scene Reconstruction David J. Icove, John D. De Haan, Gerald A. Haynes, 2012-09-10 ALERT Before you purchase check with your instructor or review your course syllabus to ensure that you select the correct ISBN Several versions of Pearson's MyLab check with the seller before completing your purchase Used or rental books If you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code Check with the seller prior to purchase *Forensic Fire Scene Reconstruction Third Edition* describes and illustrates a new systematic approach for reconstructing fire scenes applying the principles of fire protection engineering along with those of forensic science and behavioral science Modern fire investigation topics are covered including comprehensive documentation hypothesis testing and defensible reconstruction of the events leading up to the fire and its final results Delving deep into forensic fire engineering *Forensic Fire Scene Reconstruction* covers engineering calculations fire modeling and also features several exhaustive case studies which leverage the current technology that is explained in depth throughout the text Several specialized topic areas are also covered including use of the drone aircraft forensic and panoramic photography computer modeling as well as an advanced discussion of tenability Using historical fire cases and realistic case examples the authors examine the newest lessons learned and insight into the ignition growth development and outcome of those fires All documentation in the case examples follows or exceeds the methodology set forth by the NFPA in NFPA 921 Guide for Fire and Explosion Investigations and its companion standard NFPA 1033 Standard for Professional Qualifications for Fire Investigator 2009 Edition and Kirk's *Fire Investigation Seventh Edition* *Fire Investigation* John D. DeHaan, David J. Icove, 2012 *Scientific Protocols for Fire Investigation, Third Edition* John J. Lentini, 2018-09-28 *Scientific Protocols for Fire Investigation Third Edition* focuses on the practical application of fundamental scientific principles to determine the causes of fires Originally published in 2006 the First Edition was very well received by fire investigators and those who work with them Since fire investigation is a rapidly evolving field driven by new discoveries about fire behavior the Second Edition was published in late 2012 This latest fully updated Third Edition reflects the most recent developments in the field Currently serious research is underway to try to understand the role of ventilation in structure fires Likewise there is improved understanding of the kinds of errors investigators can make that lead to incorrect determinations of the causes of fires In addition to the scientific aspects the litigation of fire related events is rapidly changing particularly with respect to an investigator's qualifications to serve as an expert witness This book covers these latest developments and ties together the changing standards for fire investigations with the fundamental scientific knowledge presented in the early chapters of the book The book is intended for those individuals who have recently entered the field of fire investigation and those who are studying fire investigation with a plan

to become certified professionals In addition professionals in the insurance industry who hire fire investigators will find this an invaluable resource Insurance companies have sustained significant losses by hiring individuals who are not qualified resulting in cases being settled or lost at a cost of millions Insurance adjusters and investigators will learn to recognize quality fire investigations and those that are not up to today's standards Lastly this book is also for the many attorneys who litigate fire cases Written with language and terms that make the science accessible even to the non scientist this new edition will be a welcome resource to any professional involved in fire and arson cases

Proceedings of the International Symposium on the Forensic Aspects of Arson Investigations, 1999 Kirk's Fire Investigation David J. Igoe (Ph. D., PE.), 2017 Fire Investigation Niamh Nic Daeid, 2004-01-27 Fire Investigation covers the concepts and theories used to determine a specific fire has been deliberately or accidentally set The author clearly explains the concepts needed to gain insight into a fire scene investigation including the dynamics of the fire the necessary conditions for a fire to start and be maintained the different types of co

Practical Fire and Arson Investigation David R. Redsicker, John J. O'Connor, 1996-10-10 This bestselling second edition introduces new case studies to illustrate concepts explained in the text and includes information about eliminating accidental causes of fires and investigating fatal fires Additional information on studies in bloodstain evidence found at fire scenes is presented as well The book also addresses the National Fire Protection Association Standards 921 regarding proper fire investigation procedures and NFPA Standards 1033 Fire Investigator Qualifications The NFPA Standards are the recognized standards in the industry and are essential information for all fire investigators from rookies to veterans Practical Fire and Arson Investigation, Second Edition David R. Redsicker, John J. O'Connor, 1996-10-10 Did you know that arson has been described as the fastest growing crime in America that arson is the most expensive crime committed that over 8 billion dollars was estimated lost due to fires in 1994 that an estimated 86 000 structure fires of incendiary or suspicious origin were reported in 1994 David Redsicker provides these statistics and much more including practical methods information and advice for investigating these types of crimes in Practical Fire and Arson Investigation Second Edition Extensively rewritten second edition of this practical manual More than 40% new material Practical Fire and Arson Investigation Second Edition is a significantly revised updated and expanded new edition of this best selling book in the Practical Aspects of Criminal and Forensic Investigations series edited by Vernon Geberth As in the first edition specific details on the basic principles are presented and advanced applied techniques for conducting a thorough fire and arson investigation are detailed New topics covered in the Second Edition include Extensively rewritten chapters on determining origin and cause eliminating accidental fire causes investigating fatal fires and vehicular fires and documenting the fire crime scene Fire scene photography using painting with light Importance of evidence preservation and analysis in civil litigation of liability and product defects **Scientific Protocols for Fire Investigation** John J. Lentini, 2018 Fire and science The chemistry and physics of combustion Fire dynamics and fire pattern development Fire investigation procedures

Analysis of ignitable liquid residues Evaluation of ignition sources Some practical examples The mythology of arson investigation Sources of error in fire investigation The professional practice of fire investigation Scientific Protocols for Fire Investigation, Second Edition John J. Lentini, 2012-10-02 Knowledge of the science behind fires is critical to understanding a fire's cause and successfully presenting that determination to the authorities or in litigation Now in its second edition Scientific Protocols for Fire Investigation focuses on the practical application of scientific principles to determine the causes of fires Uniquely qualified with years of experience in on site investigations lab analyses and courtroom presentation the author provides a resource that is unparalleled in depth and focus The book explores The history of fire investigation and the basic chemistry and physics of fire The science of fire dynamics how things burn and how they interact with their surroundings while doing so Practical procedures for conducting fire scene inspections Laboratory examination of fire debris to test for the presence of ignitable liquid residues and for potential ignition sources Relevant scientific principles as applied to 30 actual fires The evolution of the mythology of arson investigation The common root causes of errors in fire investigation The final chapter discusses the professional practice of fire investigation It examines quality assurance business practices and the fundamentals of being an expert witness with advice for giving testimony in depositions and at trial Other highlights of the second edition include new and expanded discussions on novel training methods first assumptions computer fire modeling low voltage ignition sources the questionable validity of some origin determinations and recent changes in NFPA 921 Thorough and accessible this volume not only provides the practical information necessary to conduct an effective inquiry but also offers insight into the science history and theory behind what makes fire investigation a multi faceted profession John Lentini discusses the book in a video on the CRC Press YouTube Channel **Kirk's Fire Investigation** John D. DeHaan Ph.D., FABC, FSSDip, David J. Icove Ph.D., PE, 2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Text only This product does not include a MyFireKit Access Code Card To purchase the text with a MyFireKit Access Code Card please use ISBN 0 13 283000 0 Taking the reader from the beginning stages of a fire investigation in evidence collection and evaluating a fire scene to the end stages of report writing and giving testimony internationally recognized forensic scientist John DeHaan is joined by forensic fire engineering expert David Icove for the 7th edition of Kirk's Fire Investigation The model curriculum of the Fire Emergency Service Higher Education FESHE group serves as a basis for this important text which provides updated and expanded information on fire dynamics ignition as well as brand new case examples With appendices unique in content and focus including an Evidence Collection Kit and Incident Report Forms this text serves as the keystone text in the field for both seasoned fire investigators as well as fire service professionals seeking the fundamentals and the most up to date information for the field of fire investigation Kirk's Fire Investigation Stephen P. Robbins, David J. Icove, 2013-10-03 Text only This product does NOT include a MyFireKit Access Code Card To purchase the text with a

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Icove, 2011-05-24 ALERT Before you purchase check with your instructor or review your course syllabus to ensure that you select the correct ISBN Several versions of Pearson s MyLab check with the seller before completing your purchase Used or rental books If you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code Check with the seller prior to purchase Taking the reader from the beginning stages of a fire investigation in evidence collection and evaluating a fire scene to the end stages of report writing and giving testimony internationally recognized forensic scientist John DeHaan is joined by forensic fire engineering expert David Icove for the 7th edition of Kirk s Fire Investigation The model curriculum of the Fire Emergency Service Higher Education FESHE group serves as a basis for this important text which provides updated

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O'Connor, 1992-09-17 Packed with hundreds of case studies outlines charts illustrations and photographs Written by a 17 year veteran of fire investigation *Practical Fire and Arson Investigation* presents specific details on the basic principles and advanced applied techniques for conducting a thorough fire and arson investigation The text is based on the author's experience as both a fire fighter and a fire investigator and provides a systematic approach to the multifaceted and highly technical field of fire investigation Fire Debris Analysis Eric Stauffer, Julia A. Dolan, Reta Newman, 2007-12-24 The study of fire debris analysis is vital to the function of all fire investigations and as such *Fire Debris Analysis* is an essential resource for fire investigators The present methods of analysis include the use of gas chromatography and gas chromatography mass spectrometry techniques which are well established and used by crime laboratories throughout the world However despite their universality this is the first comprehensive resource that addresses their application to fire debris analysis *Fire Debris Analysis* covers topics such as the physics and chemistry of fire and liquid fuels the interpretation of data obtained from fire debris and the future of the subject Its cutting edge material and experienced author team distinguishes this book as a quality reference that should be on the shelves of all crime laboratories Serves as a comprehensive guide to the science of fire debris analysis Presents both basic and advanced concepts in an easily readable logical sequence Includes a full color insert with figures that illustrate key concepts discussed in the text Forensic Fire Scene Reconstruction Coursecompass Student Access Code David J Icove, John D. De Haan, 2013-01-18 ALERT Before you purchase check with your instructor or review your course syllabus to ensure that you select the correct ISBN Several versions of Pearson's MyLab check with the seller before completing your purchase Used or rental books If you rent or purchase a used book with an access code the access code may have been redeemed previously and you may have to purchase a new access code Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code Check with the seller prior to purchase

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