THE MATHEMATICAL THEORY OF

COMBUSTION AND EXPLOSIONS

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Mathematical Theory of Combustion and Explosions ,1985 **The Mathematical Theory of Combustion and Explosions** G. Barenblatt,2011-09-26 vi The amalgamation of individual approaches and results from various schools into a comprehensive scientific theory which can be generally appreciated throughout the international scientific com munity is oftendifficult and time consuming We believe that one of the best ways to give a complete and clear presentation of a theoryis to include a review of the developmental history of that theory We are convinced that explaining a theory in a historical perspectiveis essential for a proper understanding ofits present state and for a sound choice of future developments So we have endeavored to present a complete picture of investi gations performed in both Western and Soviet nations We understand that Soviet investigations are less familiar to English speaking readers due to the languagebarrier and the obvious sad circumstances of the interruption of scientific connections before and after World War II because of this there is an emphasis on Soviet publications in the bibliography Our attempt to present a comprehensive picture has made our book rather large becauseit has had to include some fundamentals of thermochemistry and kinetics as well as self ignition and flame propagation invarious conditions We have also included stability problems in some detail but we have had to leave out the problems of combustion of solid propellants and detonation We hope that our bookwill be useful to the reader wishing to learn about both the present state of combustion theory and howit originated due to the efforts of many people from different countries Ya B Z **The Mathematical Theory of Combustion and Explosions** G. Barenblatt,2013-05-14 vi The amalgamation of individual approaches and results from various schools into a comprehensive scientific theory which can be generally appreciated throughout the international scientific com munity is oftendifficult and time consuming We believe that one of the best ways to give a complete and clear presentation of a theoryis to include a review of the developmental history of that theory We are convinced that explaining a theory in a historical perspectiveis essential for a proper understanding ofits present state and for a sound choice of future developments So we have endeavored to present a complete picture of investi gations performed in both Western and Soviet nations We understand that Soviet investigations are less familiar to English speaking readers due to the languagebarrier and the obvious sad circumstances of the interruption of scientific connections before and after World War II because of this there is an emphasis on Soviet publications in the bibliography Our attempt to present a comprehensive picture has made our book rather large becauseit has had to include some fundamentals of thermochemistry and kinetics as well as self ignition and flame propagation invarious conditions We have also included stability problems in some detail but we have had to leave out the problems of combustion of solid propellants and detonation We hope that our bookwill be useful to the reader wishing to learn about both the present state of combustion theory and howit originated due to the efforts of many people from different countries Ya B Z **The Mathematical Theory of Combustion and Explosions** I︠A︡kov Borisovich Zel'dovich,Akademii︠a︡ nauk

SSSR.,1985   *Introduction to Physics and Chemistry of Combustion* Michael A. Liberman,2008-09-09 Most of the material covered in this book deals with the fundamentals of chemistry and physics of key processes and fundamental mechanisms for various combustion and combustion related phenomena in gaseous combustible mixture It provides the reader with basic knowledge of burning processes and mechanisms of reaction wave propagation The combustion of a gas mixture flame explosion detonation is necessarily accompanied by motion of the gas The process of combustion is therefore not only a chemical phenomenon but also one of gas dynamics The material selection focuses on the gas phase and with premixed gas combustion Premixed gas combustion is of practical importance in engines modern gas turbine and explosions where the fuel and air are essentially premixed and combustion occurs by the propagation of a front separating unburned mixture from fully burned mixture Since premixed combustion is the most fundamental and potential for practical applications the emphasis in the present work is be placed on regimes of premixed combustion This text is intended for graduate students of different specialties including physics chemistry mechanical engineering computer science mathematics and astrophysics

Combustion Phenomena Jozef Jarosinski,Bernard Veyssiere,2009-02-12 Extensively using experimental and numerical illustrations CombustionPhenomena Selected Mechanisms of Flame Formation Propagation and Extinction provides a comprehensive survey of the fundamental processes of flame formation propagation and extinction Taking you through the stages of combustion leading experts visually display mathematically explain and clearly theorize on important physical topics of combustion After a historical introduction to the field they discuss combustion chemistry flammability limits and spark ignition They also study counterflow twin flame configuration flame in a vortex core the propagation characteristics of edge flames instabilities and tulip flames In addition the book describes flame extinction in narrow channels global quenching of premixed flames by turbulence counterflow premixed flame extinction limits the interaction of flames with fluids in rotating vessels and turbulent flames The final chapter explores diffusion flames as well as combustion in spark and compression ignition engines It also examines the transition from deflagration to detonation along with the detonation wave structure With downloadable resources of images that beautifully illustrate a range of combustion phenomena this book facilitates a practical understanding of the processes occurring in the conception spread and extinguishment of a flame It will help you on your way to finding solutions to real issues encountered in transportation power generation industrial processes chemical engineering and fire and explosion hazards   *Thermo-Gas Dynamics of Hydrogen Combustion and Explosion* Boris E. Gelfand,Mikhail V. Silnikov,Sergey P. Medvedev,Sergey V. Khomik,2012-02-09 The potential of hydrogen as an important future energy source has generated fresh interest in the study of hydrogenous gas mixtures Indeed both its high caloricity and reactivity are unique properties the latter underscoring safety considerations when handling such mixtures The present monograph is devoted to the various aspects of hydrogen combustion and explosion processes In addition to theoretical and phenomenological considerations this work also collates the results of many experiments from less well known sources The

text reviews the literature in this respect thereby providing valuable information about the thermo gas dynamical parameters of combustion processes for selected experimental settings in a range of scientific and industrial applications **Handbook of Explosion Prevention and Protection** Martin Hattwig,Henrikus Steen,2008-01-08 The new definitive reference in the field Between them the renowned team of editors and authors have amassed unparalleled experience at such institutes as BAM PTB Pittsburgh National Institute for Occupational Health and Safety BASF AG and the University of G ttingen In this work the first of its kind for 35 years they describe in detail those measures that prevent or limit industrial explosions and the damage so caused They cover various preventative methods as well as the current state of technology combined with data gained through experimentation This handbook offers operational planning design and safety engineers working in industry government agencies and professional associations in depth knowledge of the scientific and technical basics allowing them to apply explosion protection according to any given situation **Combustion Physics** Michael A. Liberman,2021-11-14 This book provides the latest achievements and original research work in physics of combustion processes and application of the methods developed in combustion physics for astrophysical problems of stars burning supernovae explosions and a confined thermonuclear fusion All the materials in the book are presented in a concise and easily accessible way but at the same time provides a deep physical inside in the phenomena considered It is an effective theoretical course with the direct practical implications in engineering fields of engine s development energy production safety issues inherent to terrestrial combustion as well as in thermonuclear combustion in the inertial fusion This book is aimed at university students Ph D students and engineers as well as professionals in combustion energy related research astrophysics and researchers in neighboring fields **Dust Explosion Dynamics** Russell A. Ogle,2016-09-10 Dust Explosion Dynamics focuses on the combustion science that governs the behavior of the three primary hazards of combustible dust dust explosions flash fires and smoldering It explores the use of fundamental principles to evaluate the magnitude of combustible dust hazards in a variety of settings Models are developed to describe dust combustion phenomena using the principles of thermodynamics transport phenomena and chemical kinetics Simple tractable models are described first and compared with experimental data followed by more sophisticated models to help with future challenges Dr Ogle introduces the reader to just enough combustion science so that they may read interpret and use the scientific literature published on combustible dusts This introductory text is intended to be a practical guide to the application of combustible dust models suitable for both students and experienced engineers It will help you to describe the dynamics of explosions and fires involving dust and evaluate their consequences which in turn will help you prevent damage to property injury and loss of life from combustible dust accidents Demonstrates how the fundamental principles of combustion science can be applied to understand the ignition propagation and extinction of dust explosions Explores fundamental concepts through model building and comparisons with empirical data Provides detailed examples to give a thorough insight into the hazards of

combustible dust as well as an introduction to relevant scientific literature   Nonlinear PDE's in Condensed Matter and Reactive Flows Henri Berestycki,Yves Pomeau,2012-12-06 Nonlinear partial differential equations abound in modern physics The problems arising in these fields lead to fascinating questions and at the same time progress in understanding the mathematical structures is of great importance to the models Nevertheless activity in one of the approaches is not always sufficiently in touch with developments in the other field The book presents the joint efforts of mathematicians and physicists involved in modelling reactive flows in particular superconductivity and superfluidity Certain contributions are fundamental to an understanding of such cutting edge research topics as rotating Bose Einstein condensates Kolmogorov Zakharov solutions for weak turbulence equations and the propagation of fronts in heterogeneous media   *Explosion-Resistant Buildings* T. Bangash,2006-02-23 This excellent book highlights all aspects of the analysis and design of buildings subject to impact explosion and fire It is a definitive reference book and contains 10 chapters from a wide international prospective Three dimensional finite element and discrete element techniques are included They are applied to buildings such as the World Trade Center WTC Twin Towers and the Federal Building in Oklahoma on the basis of the designers drawings data and other information Many small case studies are also included The book has a comprehensive bibliography and a large appendix providing background analysis and computer subroutines of recently developed programs   *Combustion Physics* Chung K. Law,2010-08-23 This graduate level text incorporates these advances in a comprehensive treatment of the fundamental principles of combustion physics The presentation emphasises analytical proficiency and physical insight with the former achieved through complete though abbreviated derivations at different levels of rigor and the latter through physical interpretations of analytical solutions experimental observations and computational simulations Exercises are mostly derivative in nature in order to further strengthen the student s mastery of the theory Implications of the fundamental knowledge gained herein on practical phenomena are discussed whenever appropriate These distinguishing features provide a solid foundation for an academic program in combustion science and engineering   Prevention of Hazardous Fires and Explosions V.E. Zarko,V. Weiser,N. Eisenreich,A.A. Vasil'ev,2012-12-06 Besides its obvious destructive potential military R D also serves to protect human lives equipment and facilities against the effects of weapons Concepts have therefore been developed that improve safety of stationary and mobile facilities against pressure waves thermal radiation and fire Effective fast fire extinguishing equipment has been designed for tank compartments and motors Closed buildings are demolished and landmines are removed with gas and dust explosions Stringent safety requirements have been developed for the production of ammunition and explosives Military and related industries have accumulated a vast knowledge and sophisticated experience that are very valuable in a variety of civil applications The knowledge is based on theoretical and experimental research work the origin of which sometimes dates back many centuries It has often been classified and therefore has remained unknown to the civilian population until now   Advances In Combustion Science W. A. Sirignano,Aleksandr

Grigor'evich Merzhanov,L. De Luca,1997 **Singular Perturbations and Hysteresis** Michael P. Mortell,Robert E. O'Malley,Alexei Pokrovskii,Vladimir Sobolev,2005-01-01 This book brings together many important recent developments in the analysis of singular perturbation and hysteresis phenomena in an accessible and reasonably comprehensive fashion To bridge a gap between practitioners of these phenomena the editors conducted a workshop in April 2002 at University College Cork to provide a forum for experts in both fields to share their interests and knowledge For this book the editors have compiled research from those practitioners in areas such as reacting systems semiconductor lasers shock phenomena in economic modeling and fluid mechanics all with an emphasis on hysteresis and singular perturbations **Progress In Astronautics and Aeronautics** A. A. Borisov,1991 Internal Combustion Engineering: Science & Technology P.M. Weaving,2012-12-06 Sir Diarmuid Downs CBE FEng FRS Engineering is about designing and making marketable artefacts The element of design is what principally distinguishes engineering from science The engineer is a creator He brings together knowledge and experience from a variety of sources to serve his ends producing goods of value to the individual and to the community An important source of information on which the engineer draws is the work of the scientist or the scientifically minded engineer The pure scientist is concerned with knowledge for its own sake and receives his greatest satisfaction if his experimental observations fit into an aesthetically satisfying theory The applied scientist or engineer is also concerned with theory but as a means to an end He tries to devise a theory which will encompass the known experimental facts both because an all embracing theory somehow serves as an extra validation of the facts and because the theory provides us with new leads to further fruitful experimental investigation I have laboured these perhaps rather obvious points because they are well exemplified in this present book The first internal combustion engines produced just over one hundred years ago were very simple the design being based on very limited experimental information The current engines are extremely complex and while the basic design of cylinder piston connecting rod and crankshaft has changed but little the overall performance in respect of specific power fuel economy pollution noise and cost has been absolutely transformed

Geometric Sturmian Theory of Nonlinear Parabolic Equations and Applications Victor A. Galaktionov,2004-05-24 Unlike the classical Sturm theorems on the zeros of solutions of second order ODEs Sturm s evolution zero set analysis for parabolic PDEs did not attract much attention in the 19th century and in fact it was lost or forgotten for almost a century Briefly revived by P lya in the 1930 s and rediscovered in part several times since it was not until the 1980 s that the Sturmian argument for PDEs began to penetrate into the theory of parabolic equations and was found to have several fundamental applications Geometric Sturmian Theory of Nonlinear Parabolic Equations and Applications focuses on geometric aspects of the intersection comparison for nonlinear models creating finite time singularities After introducing the original Sturm zero set results for linear parabolic equations and the basic concepts of geometric analysis the author presents the main concepts and regularity results of the geometric intersection theory G theory Here he considers the

general singular equation and presents the geometric notions related to the regularity and interface propagation of solutions In the general setting the author describes the main aspects of the ODE PDE duality proves existence and nonexistence theorems establishes uniqueness and optimal Bernstein type estimates and derives interface equations including higher order equations The final two chapters explore some special aspects of discontinuous and continuous limit semigroups generated by singular parabolic equations Much of the information presented here has never before been published in book form Readable and self contained this book forms a unique and outstanding reference on second order parabolic PDEs used as models for a wide range of physical problems   Fire Engineering and Emergency Planning R. Barham,2006-01-31 Protection against fire and prevention of explosion is vital in a modern industrial economy This published proceedings of the First European Conference on Fire Engineering and Emergency Planning provides an authoritative base of materials covering the latest research applications and hypotheses as a cumulative reference work and a platform for exchanges of ideas within the academic fire community

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Mathematical Theory Of Combustion And Explosions Introduction

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