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One of history's most multifaceted rulers but little known in the West, Queen Njinga rivaled Elizabeth I and Catherine the Great in political cunning and military prowess. Today, she is revered in Angola as a heroine and honored in folk religions. Her complex legacy forms a crucial part of the collective memory of the Afro-Atlantic world. A major task of our time is to ensure adequate food supplies for the world's current population (now nearing 7 billion) in a sustainable way while protecting the vital functions and biological diversity of the global environment. The task of providing for a growing population is likely to be even more difficult in

view of actual and potential changes in climatic conditions due to global warming, and as the population continues to grow. Current projections suggest that the world's temperatures will rise 1.8-4.0 by 2100 and population may reach 8 billion by the year 2025 and some 9 billion by mid-century, after which it may stabilize. This book addresses these critical issues by presenting the science needed not only to understand climate change effects on crops but also to adapt current agricultural systems, particularly in regard to genetics, to the changing conditions. *Crop Adaptation to Climate Change* covers a spectrum of issues related to both crops and climatic conditions. The first two sections provide a foundation on the factors involved in climate stress, assessing current climate change by region and covering crop physiological responses to these changes. The third and final section contains chapters focused on specific crops and the current research to improve their genetic adaptation to climate change. Written by an international team of authors, *Crop Adaptation to Climate Change* is a timely look at the potentially serious consequences of climate change for our global food supply, and is an essential resource for academics, researchers and professionals in the fields of crop science, agronomy, plant physiology and molecular biology; crop consultants and breeders; as well as climate and food scientists.

Automotive technology. A discussion of the opportunities and challenges involved in mitigating greenhouse gas emissions from passenger travel. This book addresses the two-stroke cycle internal combustion engine, used in compact, lightweight form in everything from motorcycles to chainsaws to outboard motors, and in large sizes for marine propulsion and power generation. It first provides an overview of the principles, characteristics, applications, and history of the two-stroke cycle engine, followed by descriptions and evaluations of various types of models that have been developed to predict aspects of two-stroke engine operation. From the Pulitzer Prize-winning author of "The Beak of the Finch" comes a book about the new biology and how it touches a defiant family-in-crisis fighting an incurable disease. This volume publishes for the first time, the journal kept by John Looker (?1670—1715) recording his service as ship's surgeon on the Blackham Galley, a London-built merchantman on its second trading voyage to the Levant, between December 1696 and March 1698. Preserved in the Caird Library of the National Maritime Museum, Looker's 'Journall' describes his experiences on the voyage from the point at which he joined the ship at Gravesend, to March 1698, when the journal breaks off abruptly in mid-sentence when the ship was off the Kentish 'Narrows'. John Looker was a Londoner, brought up in one of the parishes to the east of the City which furnished large numbers of mariners to the English sea-borne trades. He served an apprenticeship to a London barber-surgeon, and became a Freeman of the Company of Barber-Surgeons. His fifteen months of service on board the Blackham Galley appears to have been his only employment at sea, but his ready knowledge of maritime ways and language, which are apparent from the first pages of his 'Journall', make it more than likely that he came from a seafaring family. Subsequent to his voyage, he married, raised a family, practiced in London as a surgeon, and acquired land in East Anglia. He died at Bath in 1715. Looker's 'Journall' divides naturally into three parts. The Blackham Galley's outward and homeward voyages were largely without incident. The time spent by the Blackham Galley in Turkish waters, covers its voyage from Smyrna to Constantinople, where the ship stayed for a month, and then returned to Smyrna.

Captain Newnam's ill-advised and disastrous attempt at privateering in Ottoman waters on the return journey to Smyrna, led to the detention of his vessel at Smyrna under a double interdict from the English ambassador at the Porte and from the Ottoman authorities. Looker's account of the Blackham Galley's enforced stay in Smyrna furnishes a vigorous and detailed account of social life in the international merchant community, as well as portside life seen 'from below', with its taverns and prostitutes, and the activities and frequent 'debauches' of an increasingly bored and fractious crew. Looker's record also provides interesting detail of his professional approach to treatment of the illnesses, accidents and occasional deaths of members of the company of his own and other ships anchored off Smyrna. A discussion of the opportunities and challenges involved mitigating greenhouse gas emissions from passenger travel. In the nineteenth century, horse transportation consumed vast amounts of land for hay production, and the intense traffic and ankle-deep manure created miserable living conditions in urban centers. The introduction of the horseless carriage solved many of these problems but has created others. Today another revolution in transportation seems overdue. Transportation consumes two-thirds of the world's petroleum and has become the largest contributor to global environmental change. Most of this increase in scale can be attributed to the strong desire for personal mobility that comes with economic growth. In *Transportation in a Climate-Constrained World*, the authors present the first integrated assessment of the factors affecting greenhouse gas (GHG) emissions from passenger transportation. They examine such topics as past and future travel demand; the influence of personal and business choices on passenger travel's climate impact; technologies and alternative fuels that may become available to mitigate GHG emissions from passenger transport; and policies that would promote a more sustainable transportation system. And most important, taking into account all of these options are taken together, they consider how to achieve a sustainable transportation system in the next thirty to fifty years. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. "The Two-Stroke Cycle Engine is an indispensable resource for all researchers developers, designers, users, and inventors of two-stroke cycle engines, as well as for professors and students in the field. As a complete, reference, it should serve as both an introduction to the field and a comprehensive overview of what is currently known about this widely used internal combustion engine concept."--BOOK JACKET. This text, by a leading authority in the field, presents a fundamental and factual development of the science and engineering underlying the design of combustion engines and turbines. An extensive illustration program supports the concepts and theories discussed. This book establishes Central Africa as the

origin of most Africans brought to English and Dutch American colonies in North America, the Caribbean, and South America before 1660. It reveals that Central Africans were frequently possessors of an Atlantic Creole culture and places the movement of slaves and creation of the colonies within an Atlantic historical framework. The scandalous story of the corruption of the Bo Xilai family--the murder of British businessman Neil Heywood; Bo's secret lovers, who may have included Chinese film stars; the blackmailing by Bo's supporters; and the hasty trial and sentencing of Gu Kailai, Bo's wife--is only the start. Writing Under Tyranny: English Literature and the Henrician Reformation spans the boundaries between literary studies and history. It looks at the impact of tyrannical government on the work of poets, playwrights, and prose writers of the early English Renaissance. It shows the profound effects that political oppression had on the literary production of the years from 1528 to 1547, and how English writers in turn strove to mitigate, redirect, and finally resist that oppression. The result was the destruction of a number of forms that had dominated the literary production of late-medieval England, but also the creation of new forms that were to dominate the writing of the following centuries. Paradoxically, the tyranny of Henry VIII gave birth to many modes of writing now seen to be characteristic of the English literary Renaissance. The series is performing an important service by providing fully annotated editions of Tudor humanists and playwrights in the original Tudor English, with glossaries and listing of textual variants and doubtful readings. COMPARATIVE DRAMA `A first-rate edition that substantially advances the cause of scholarship.' COMPARATIVE DRAMA First complete and fully annotated collection of John Heywood's plays in the original language. It makes possible a reevaluation of his remarkable achievement as actor-playwright and an appreciation of his lively contribution to the English language. In all their experimental variety the comedies are seen to have the stamp of an idiosyncratic, theatrical intelligence coupled with a surprising seriousness and Heywood emerges as a resourceful apologist for traditional Catholic doctrine in a time of Reformation. In arguing for a new chronology, the editors suggest that Henry VIII's servant and entertainer was capable of refreshing irreverence and political daring. Contents: Witty and Witles, Johan Johan, The Pardoner and the Frere, The Four PP, A Play of Love, The Play of the Wether. Notes. Appendices: Verses from a lost Play of Reason, Translation of . RICHARD AXTON is a Fellow of Christ's College, Cambridge, and University lecturer in English. PETER HAPPÉ is the former Principal of Barton Peveril Sixth-Form College. Since the publication of the Second Edition in 2001, there have been considerable advances and developments in the field of internal combustion engines. These include the increased importance of biofuels, new internal combustion processes, more stringent emissions requirements and characterization, and more detailed engine performance modeling, instrumentation, and control. There have also been changes in the instructional methodologies used in the applied thermal sciences that require inclusion in a new edition. These methodologies suggest that an increased focus on applications, examples, problem-based learning, and computation will have a positive effect on learning of the material, both at the novice student, and practicing engineer level. This Third Edition mirrors its predecessor with additional tables, illustrations, photographs, examples, and problems/solutions. All of the software is 'open source', so that readers can see how the computations are performed. In addition

to additional java applets, there is companion Matlab code, which has become a default computational tool in most mechanical engineering programs. Ranging from huge cacti and broadleaf trees to tiny arctic flowers, flowering plants are the most vital component of global biodiversity. They provide the crops that feed us, medicines, oils, fibres, herbs, spices, dyes, beverages, timber and habitats for countless animals. This updated and revised successor to a classic book, *Flowering Plants of the World* is an authoritative, fascinating introduction to the Earth's most colourful flora comprising comprehensive accounts of more than 500 flowering plant families. Each entry describes distribution, diagnostic features, classification, structures, uses and ecology of flowering plants. Over 1,000 visually stunning and precisely scaled illustrations display the major characteristics of key plants and detailed maps show worldwide distribution. Written by a team of acknowledged experts, this is the definitive survey of flowering plants worldwide and brings to the forefront the latest views on their classification. An extensive and meticulously illustrated glossary describes the specialist terms used in the text, and a comprehensive index includes plant names in both Latin and English. Both as a book of breathtaking beauty and a discourse on the science of flowering plants, this essential reference is sure to become a horticultural and botanical classic and part of every gardening enthusiast's and plant scientist's library. Now in its fourth edition, this textbook remains the indispensable text to guide readers through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice aids in the understanding of internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. This textbook is aimed at third year undergraduate or postgraduate students on mechanical or automotive engineering degrees. New to this Edition: - Fully updated for changes in technology in this fast-moving area - New material on direct injection spark engines, supercharging and renewable fuels - Solutions manual online for lecturers

**Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The long-awaited revision of the most respected resource on Internal Combustion Engines --covering the basics through advanced operation of spark-ignition and diesel engines. Written by one of the most recognized and highly regarded names in internal combustion engines this trusted educational resource and professional reference covers the key physical and chemical processes that govern internal combustion engine operation and design. *Internal Combustion Engine Fundamentals, Second Edition*, has been thoroughly revised to cover recent advances, including performance enhancement, efficiency improvements, and emission reduction technologies. Highly illustrated and cross referenced, the book includes discussions of these engines' environmental impacts and requirements. You will get complete explanations of spark-ignition and compression-ignition (diesel) engine operating characteristics as well as of engine flow and combustion phenomena and fuel requirements. Coverage includes:**

- Engine types and their operation
- Engine design and operating parameters
- Thermochemistry of fuel-air mixtures
- Properties of working fluids
- Ideal models of engine cycles
- Gas exchange processes
- Mixture preparation in spark-ignition engines
- Charge

motion within the cylinder•Combustion in spark-ignition engines•Combustion in compression-ignition engines•Pollutant formation and control•Engine heat transfer•Engine friction and lubrication•Modeling real engine flow and combustion processes•Engine operating characteristics This book addresses the two-stroke cycle internal combustion engine, used in compact, lightweight form in everything from motorcycles to chainsaws to outboard motors, and in large sizes for marine propulsion and power generation. It first provides an overview of the principles, characteristics, applications, and history of the two-stroke cycle engine, followed by descriptions and evaluations of various types of models that have been developed to predict aspects of two-stroke engine operation. This book addresses the two-stroke cycle internal combustion engine, used in compact, lightweight form in everything from motorcycles to chainsaws to outboard motors, and in large sizes for marine propulsion and power generation. It first provides an overview of the principles, characteristics, applications, and history of the two-stroke cycle engine, followed by descriptions and evaluations of various types of models that have been developed to predict aspects of two-stroke engine operation. Climate change is one of the greatest challenges facing global society. The debate over what to do is confounded by the uncertain relationship between increasing greenhouse gas emissions and climate change, and the impact of those changes on nature and human civilization. Driving Climate Change will provide professionals and students alike with the latest information regarding greenhouse emissions while presenting the most up-to-date techniques for reducing these emissions. It will investigate three broad strategies for reducing greenhouse gas emissions: 1) reducing motorized travel, 2) shifting to less energy intensive modes, and 3) changing fuel and propulsion technologies. Findings will be presented by the leaders in the field with contributions from professors, researchers, consultants and engineers at the most prominent institutions - commercial, academic and federal - dealing with environmental research and policy. Includes a comprehensive evaluation of current industrial practice Provides technologically sound and manageable techniques for engineers, scientists and designers Incorporates guidelines for a sustainable future

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