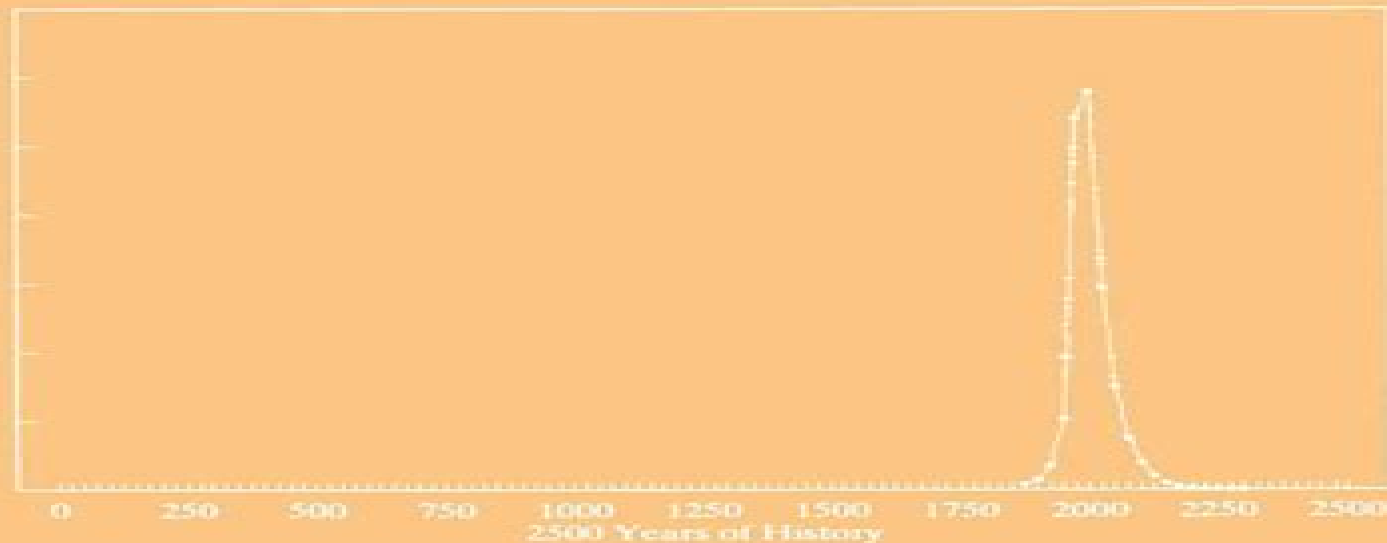


# The Golden Century of Oil 1950–2050

## The Depletion of a Resource

*by*

C. J. Campbell



# Golden Century Of Oil 1950 2050 The Depletion Of A Resource

**Colin John Campbell**



## **Golden Century Of Oil 1950-2050 The Depletion Of A Resource:**

**The Golden Century of Oil 1950-2050** C.J. Campbell, 2012-12-06 oil is the lifeblood of the World's economy. It was a critical element in two World Wars and in the Cold War and as recent events in the Middle East confirm, people are willing to fight for it. The cheap energy it provides, especially for transport and agriculture, was one of the main factors that made possible the economic prosperity and growth that the World has enjoyed for the past fifty years and more. People rely on it everywhere and in many forms and they have become so accustomed to its ready availability that they take it for granted. To conceive of a world without traffic jams and airliners is unthinkable and while not so obvious, oil lies behind every supermarket shelf, fuelling the tractor that ploughs the field and the delivery van that brings the consumer his food. Yet everyone knows that it is a finite and irreplaceable commodity formed long ago in the geological past. What no one knows is just how finite it is. This book is an effort to try to answer that question, not in detail but at least in orders of magnitude. More useful than the figures themselves is the discussion of the elements involved in addressing the subject. While it is impossible to predict the precise pattern of future production, which will be affected by many unforeseeable factors, one can at least begin to think in terms of resource constraint instead of an ever-expanding supply of oil. *Global Resource Estimates from Total Petroleum Systems* Thomas S. Ahlbrandt, Ronald R. Charpentier, T.R. Klett, James W. Schmoker, Christopher J. Schenk, Gregory F. Ulmishek, 2005. Presented in this publication are the results of a major study of the petroleum resources of the world as analyzed by Total Petroleum Systems. The distribution and volumes of resources available in these systems are critically important for the future of the world's economies. Geologic insights gained from studying these 149 systems and their constituent assessment units in 128 provinces and 96 countries, exclusive of the United States, allow a new look at petroleum accumulations and the rocks that are intimately associated with them. *Oil in the 21st Century* Robert Mabro, 2006. Oil is hitting the headlines once again. The big increases in oil prices over the past two years are upsetting consumers and puzzling producers. The reasons are difficult to understand since few people are familiar with the complex workings of the price regime for oil in international trade. It is said that sluggish investment is a major cause, but what are the reasons for inadequate investment in oil producing and refining plants during the last 20 years? Does oil have a future? We are told that oil production will soon peak because the rate of production is higher than replacement rates. Climate change problems are casting a shadow over the future of fossil fuels. There may, however, be a solution to the nefarious CO<sub>2</sub> emissions, for instance technologies that sequester carbon. Oil's stronghold is the transport sector: cars, trucks, railway engines, planes, ships. The demand for oil would suffer a fatal blow if technical innovations in car engines make it possible to use an alternative fuel to petrol or diesel. New energy sources: wind, solar, tide waves, geo-thermal, are both renewable and environment friendly. Do they represent a threat to the future of oil? An international team of experts addresses these highly topical questions in this comprehensive volume. Quantification and Prediction of Hydrocarbon Resources A.G. Doré, R.

Sinding-Larsen,1996-12-17 The oil price shocks of the mid 1980s and their aftermath created radical changes in the petroleum industry and underlined the need for reliable information on petroleum resources Integration between the disciplines of petroleum geology exploration geophysics reservoir petroleum engineering and economics became a necessity for resource management and strategic planning This volume is designed to bring together some of the best techniques evolved to meet these challenges The very broad scope of the volume ranging from the macro global to micro field and prospect level provides an overview of the thought processes currently prevalent in the industry and academia on the subject of resource quantification and prediction This is one of the first books to cover the extensive assembly of hydrocarbon quantification and prediction techniques of value to petroleum industry management geoscientists engineers and economists Containing hundreds of illustrations some in colour the book is arranged in 26 chapters with a detailed subject index Many service companies and university departments with links to the industry will also find much to interest them

**Introduction to Peak Oil** R.W. Bentley,2016-03-22 This book examines the physical and economic characteristics of the global oil resource to explain why peak oil has been so poorly understood The author draws on information held in oil industry datasets that are not widely available outside of the specialist literature and describes a number of methods that have been successfully used to predict oil peaks In contrast to the widely held view that all oil forecasts are wrong these methods correctly predicted the current peak in global conventional oil production Current oil forecasts are then compared to evaluate the expected dates for regional and global oil peaks for conventional oil all oils and all liquids The dates of global peaks in the production of all oil and all liquids appear to be reasonably soon while the oil price that is needed to support these global production levels continues to rise The world faces serious constraints in its oil supply which accounts for about one third of total world energy use and over 90% of the fuel used for transportation Readers of this book will gain a thorough understanding of the critical but poorly understood phenomenon of peak oil that has already had significant impacts on society in terms of high oil prices and which will place increasing constraints on mankind s supply of energy and economic well being in the coming years

Elements of Petroleum Geology Richard C. Selley,1998 This third edition of Elements of Petroleum Geology is completely updated and revised to reflect the vast changes in the years since publication of the First Edition This book is a useful primer for geophysicists geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area It is also an excellent introductory text for a university course in petroleum geoscience Elements of Petroleum Geology begins with an account of the physical and chemical properties of petroleum reviewing methods of petroleum exploration and production These methods include drilling geophysical exploration techniques wireline logging and subsurface geological mapping After describing the temperatures and pressures of the subsurface environment and the hydrodynamics of connate fluids Selley examines the generation and migration of petroleum reservoir rocks and trapping mechanisms and the habit of petroleum in sedimentary basins The book contains an

account of the composition and formation of tar sands and oil shales and concludes with a brief review of prospect risk analysis reserve estimation and other economic topics Updates the first edition completely Reviews the concepts and methodology of petroleum exploration and production Written by a preeminent petroleum geologist and sedimentologist with 30 years of petroleum exploration in remote corners of the world Contains information pertinent to geophysicists geologists and petroleum reservoir engineers

**Market Madness** Blake C. Clayton, 2015-01-02 Stock market booms are cause for celebration But when oil prices soar because supplies are failing to keep up with demand the response is nearly always apocalyptic Predictions of the end of oil can create anxiety on Wall Street and in Washington stoking fears that production has hit a ceiling and prices will rise in perpetuity Yet these dire visions have always proven wrong Market Madness is the story of four waves of American anxiety over the last 100 years about a looming end to oil reserves Their sweeping pattern as large price increases lead to widespread shortage fears that eventually dissipate when oil production rises again and prices moderate has defined the wild price swings in the oil market down to the present day Blake Clayton a Wall Street stock analyst and adjunct fellow at the Council on Foreign Relations makes the case for the need for better information communication and transparency While these measures will not eliminate volatility and unpredictability completely they would mitigate unnecessary price spikes and improve both investor and government decision making Market Madness is the first study to employ Nobel Laureate economist Robert Shiller's new era economics beyond the markets to which he famously applied it the 1990s dot com equity market and the mid 2000s housing market in order to better understand the dynamics of speculative bubbles and irrationality in the commodities markets In so doing it breaks new ground in illuminating how mass beliefs about the future of a vital asset like oil take shape and what the future of energy may hold

**Oil Crisis** Colin John Campbell, 2005 Colin Campbell is renowned for his lucid earlier work The coming oil crisis Eight years on events have proved his analysis right Now he argues that the oil crisis has come The familiar technical explanation of the crisis is carefully made again essentially that there is no more oil to be found That fact is beginning to manifest itself in heightened competition for the remaining resource which is why America invaded Iraq why Central Asia is in turmoil why oil is persistently priced above 50 barrel and why Goldman Sachs think 100 a barrel is not too unlikely in the near future The problem of an oil less world is beyond the grasp of politicians They can fiddle with ideas about renewables or hydrogen but they along with most of humanity have not really grasped that it is the oil economy that enables about a 7 billion world population to be sustained A wholly new world is imminent It is not likely to be very pleasant Dr Campbell outlines our grim future book cover

**The First Half of the Age of Oil** Charles A. S. Hall, Carlos A. Ramírez-Pascualli, 2012-12-05 According to the conventional wisdom we live in a post industrial information age This book however paints a different picture We live in the age of oil Petroleum fuels and feedstocks are responsible for much of what we take for granted in modern society from chemical products such as fertilizer and plastics to the energy that moves people and goods in a global economy Oil is a nearly perfect

fuel Energy dense safe to store easy to transport and mostly environmentally benign Most importantly oil has been cheap and abundant during the past 150 years In 1998 two respected geologists Colin Campbell and Jean Laherr re published a detailed article announcing that the end of cheap oil would happen before 2010 which meant that the world would face a peak or at least a plateau in global daily oil production in the first decade of the new millennium Today two billion people under the age of 14 have lived the majority of their lives past the point when this century long growth in oil supplies came to an end which also marks the end of the first half of the age of oil This transition has ushered in a new reality of high oil prices stagnating oil supplies and sluggish economies In this book a leading authority on energy explores the contributions and continuing legacy of Colin Campbell and Jean Laherr re the two geologists who modified the terms of the debate about oil The book provides a unique perspective and state of the art overview of today s energy reality and its enormous economic and social implications Covers a topic that eclipses climate change as the most important but least understood challenge for contemporary society Explores the works of Colin Campbell and Jean Laherr re the leading authorities in the field of Peak Oil authors of The End of Cheap Oil Scientific American 1998 and founding members of the Association for the Study of Peak Oil Gas Addresses a broad audience of scientists engineers and economists in a format that is accessible to the general public Provides a complete overview of the basic geological chemical physical economic and historical concepts that every oil consumer should understand Presents the latest information on oil production reserves discoveries prices and fields in easy to understand graphs and plots

**Transportation Engineering and Planning - Volume II** Tschangho John Kim, 2009-04-15 Transportation Engineering and Planning is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Transportation Engineering and Planning presents the readers with diverse sources of information and knowledge about transportation engineering and planning to help ensure that informed actions are compatible with sustainable world development It begins with a historical analysis of transportation development since an understanding of how transportation technologies developed is a prerequisite for understanding issues involved in transportation systems and for developing sound policy analysis Next the various chapters analyze transportation problems discusses the state of public policy addressing those problems considers the causes and effects of changes in demand for mobility as the socio economic environment changes and then deals with the fundamental questions related to transportation These two volumes are aimed at the following a wide spectrum of audiences from the merely curious to those seeking in depth knowledge University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

International Development Policy: Energy and Development Graduate Institute of International and Development Studies, 2011-06-14 Co published with The Graduate Institute this book examines how energy issues have intensified with modern development how they shape geopolitics and access to energy in Africa and

how inconsistent energy governance really is It discusses energy policy options in developing and emerging countries and questions the role of development aid

**The Last Hours of Ancient Sunlight: Revised and Updated Third Edition** Thom Hartmann, 2004-04-27 While everything appears to be collapsing around us ecodamage genetic engineering virulent diseases the end of cheap oil water shortages global famine wars we can still do something about it and create a world that will work for us and for our children s children The inspiration for Leonardo DiCaprio s feature documentary movie The Eleventh Hour and soon to be released HBO special Ice on Fire Last Hours of Ancient Sunlight details what is happening to our planet the reasons for our culture s blind behavior and how we can fix the problem Thom Hartmann s comprehensive book is one of the fundamental handbooks of the environmental activist movement Now with fresh updated material on our Earth s rapid climate change and a focus on political activism and its effect on corporate behavior The Last Hours of Ancient Sunlight helps us understand and heal our relationship to the world to each other and to our natural resources

*Rule and Order Dutch Planning Doctrine in the Twentieth Century* A. Faludi, A.J. van der Valk, 2013-04-17 This book is about an art in which the Netherlands excels strategic planning Foreign observers will need little convincing of the merits of Dutch planning They will want to know whether routine explanations small country industrious disciplined people hardened by the perennial fight against the sea hold any water and they will want to know where to look for the bag of tricks of Dutch planners Dutch readers need to be convinced first that planning in the Netherlands is indeed effective before contemplating how this has come about Our message for both is that to the extent that Dutch planners do live in what others are inclined to see as a planners paradise it is a paradise carefully constructed and maintained by the planners themselves This smacks of Bernard Shaw describing a profession as a conspiracy against laity However all knowledge and all technologies are socially constructed meaning that they are the products of people or groups pursuing often conflicting aims and coming to arrangements about what is to pass as true and good So this takes away the odium of Dutch planners having their own agenda Positioning ourselves We are in the business of interpreting Dutch planning and at the same time committed to improving it This makes us part of the situation which we describe This situation is characterized by the existence of two divergent traditions urban design and the social science discipline called planologie

International Bibliography of Economics British Library of Political and Economic Science, 1993 IBSS is the essential tool for librarians university departments research institutions and any public or private institution whose work requires access to up to date and comprehensive knowledge of the social sciences

**Transitions** Peter W Newton, 2008-06-27 Formidable challenges confront Australia and its human settlements the mega metro regions major and provincial cities coastal rural and remote towns The key drivers of change and major urban vulnerabilities have been identified and principal among them are resource constraints such as oil water food skilled labour and materials and carbon constraints linked to climate change and a need to transition to renewable energy both of which will strongly shape urban development this century Transitions identifies 21st

century challenges to the resilience of Australia's cities and regions that flow from a range of global and local influences and offers a portfolio of solutions to these critical problems and vulnerabilities. The solutions will require fundamental transitions in many instances to our urban infrastructures to our institutions and how they plan for the future and perhaps most of all to ourselves in terms of our lifestyles and consumption patterns. With contributions from 92 researchers all leaders in their respective fields this book offers the expertise to chart pathways for a sustainability transition. Urban Energy Transition Peter Droege, 2011-09-06 This compendium of 29 chapters from 18 countries contains both fundamental and advanced insight into the inevitable shift from cities dominated by the fossil fuel systems of the industrial age to a renewable energy based urban development framework. The cross disciplinary handbook covers a range of diverse yet relevant topics including carbon emissions policy and practice the role of embodied energy urban thermal performance planning building efficiency services energy poverty alleviation efforts renewable community support networks aspects of household level bio fuel markets urban renewable energy legislation programs and incentives innovations in individual transport systems global urban mobility trends implications of intelligent energy networks and distributed energy supply and storage and the case for new regional monetary systems and lifestyles. Presented are practical and principled aspects of technology economics design culture and society presenting perspectives that are both local and international in scope and relevance. **Dynamic Systems Modelling and Optimal Control** Victoria Miroshnik, Dipak Basu, 2016-04-29 Dynamic Systems Modelling and Optimal Control explores the applications of oil field development energy system modelling resource modelling time varying control of dynamic system of national economy and investment planning. Applied Chemistry: A Textbook for Engineers and Technologists H.D. Gesser, 2013-11-27 This book is the result of teaching a one semester course in Applied Chemistry Chemistry 224 to second year engineering students for over 15 years. The contents of the course evolved as the interests and needs of both the students and Engineering Faculty changed. All the students had at least one semester of Introductory Chemistry and it has been assumed in this text that the students have been exposed to Thermodynamics Chemical Kinetics Solution Equilibrium and Organic Chemistry. These topics must be discussed either before starting the Applied subjects or developed as required if the students are not familiar with these prerequisites. Engineering students often ask Why is another Chemistry course required for Non Chemical Engineers. There are many answers to this question but foremost is that the Professional Engineer must know when to consult a Chemist and be able to communicate with him. When this is not done the consequences can be a disaster due to faulty design poor choice of materials or inadequate safety factors. Examples of blunders abound and only a few will be described in an attempt to convince the student to take the subject matter seriously.

*A Theory of Environmental Leadership* Mark Manolopoulos, 2021-03-15 In *A Theory of Environmental Leadership* Mark Manolopoulos draws on his original model of leading outlined in his cutting edge book *Following Reason* to derive and develop the first properly systematic model of eco leadership. Suppose humanity's relation with the Earth may be described in



terms of leadership stages or modalities once upon a time the Earth led or ruled humanity and now we humans rule or lead the Earth When the Earth led the Earth flourished now that humankind leads the Earth flounders ecological crises multiply and intensify However there might be a third stage or modality of leadership humanity leading for the Earth leading in a way that allows the world including humans to re flourish What would be the nature of this truly environmental form of leadership A Theory of Environmental Leadership identifies and critically analyzes the two basic and incompatible positions associated with the way we construe and interact with the non human anthropocentrism human supremacism and ecocentrism ecological egalitarianism By rigorously analyzing and leveraging this polarity this book outlines an innovative theory of eco leadership together with some of its confronting but necessary measures Expansive and incredibly timely A Theory of Environmental Leadership is ideal for a range of audiences from scholars and students of environmental leadership studies to activists and policymakers The book s remarkable clarity and engaging character also makes it suitable for the general public

*The Future Is Not What It Used to Be* Jörg Friedrichs, 2013-08-16 In this book J rg Friedrichs argues that industrial society itself is transitory and he examines the prospects for our civilization s coming to terms with its two most imminent choke points climate change and energy scarcity He offers a thorough and accessible account of these two challenges as well as the linkages between them Friedrichs contends that industrial civilization cannot outlast our ability to burn fossil fuels and that the demise of industrial society would entail cataclysmic change including population decreases Publisher s description

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