#### The Boom How Fracking Ignited The American Energy

A Field Philosopher's Guide to Fracking: How One Texas Town Stood Up to Big Oil and GasFrackingFrackingUnderstanding ExtrACTIVISMEnvironmental Considerations Associated with Hydraulic Fracturing OperationsThe Reality of American EnergyThe Energy IndustryBig Oil in the United StatesOilGlobal Impact of Unconventional Energy ResourcesIntegrative Understanding of Shale Gas ReservoirsBlowoutThe New MapHydrogen is the New OilToxic and Intoxicating OilThe Great Transition: Shifting from Fossil Fuels to Solar and Wind EnergyEco-NihilismRenewable Resources and YouAn Introduction to Non-Traditional Security StudiesEncyclopedia of Technological Hazards and Disasters in the Social SciencesThe BoomSettling the BoomOil and Gas Implied Covenants for the Twenty-First Century: The Next Steps in EvolutionOil and the Western Economic CrisisThe FixNatural GasElectric MountainsFueling FreedomUnderstanding Global PoliticsAmerican Empire and the Canadian Oil SandsWater in North American Environmental HistoryShort Circuiting PolicyThe 25 Issues that Shape American PoliticsGeo-economics and Power Politics in the 21st CenturyBoom or BustInventing PlaceA Guide to Starting Your Hedge FundAppalachia RevisitedA World Made for MoneyHydrocarbon Nation Adam Briggle Anne C. Cunningham David E. Newton Anna J. Willow James A. Jacobs Ryan M. Yonk Kristina Lyn Heitkamp Jerry A. McBeath Vaclav Smil Manochehr Dorraj Kun Sang Lee Rachel Maddow Daniel Yergin Thierry Lepercq Patricia Widener Lester R. Brown Wendy Lynne Lee Nicholas Faulkner Mely Caballero-Anthony Duane A. Gill Russell Gold Mary E. Thomas John Burritt McArthur Helen Thompson Jonathan Tepperman Vaclav Smil Shaun A. Golding Stephen Moore Klaus Larres George A. Gonzalez Martin V. Melosi Leah Cardamore Stokes Michael Kryzanek Mikael Wigell Sheena B. Stief Casey Boyle Erik Serrano Berntsen Yunina Barbour-Payne Bret Wallach Thor Hogan

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winner of the writers league of texas book awards finalist for the j anthony lukas book prize from the front lines of the fracking debate a field philosopher explores one of our most divisive technologies when philosophy professor adam briggle moved to denton texas he had never heard of fracking only five years later he would successfully lead a citizens initiative to ban hydraulic fracturing in denton the first texas town to challenge the oil and gas industry on his journey to learn about fracking and its effects he leaped from the ivory tower into the fray in beautifully narrated chapters briggle brings us to town hall debates and neighborhood meetings where citizens wrestle with issues few fully understand is fracking safe how does it affect the local economy why are bakeries prohibited in neighborhoods while gas wells are permitted next to playgrounds in his quest for answers briggle meets people like cathy mcmullen her neighbors cows asphyxiated after drinking fracking fluids and her orchard was razed to make way for a pipeline cathy did not consent to drilling but those who profited lived far out of harm s way briggle s first instinct was to think about fracking deeply drawing on philosophers from socrates to kant but also on conversations with engineers legislators and industry representatives he develops a simple theory to evaluate fracking we should give those at risk to harm a stake in the decisions we make and we should monitor for and correct any problems that arise finding this regulatory process short circuited with government and industry alike turning a blind eye to symptoms like earthquakes and nosebleeds briggle decides to take action though our field philosopher is initially out of his element joining fierce activists like texas sharon once called the worst enemy of the oil and gas industry his story culminates in an underdog victory for denton now nationally recognized as a

beacon for citizens rights at the epicenter of the fracking revolution

on the surface fracking or hydraulic fracturing seems like a perfect solution to the country s energy crises it is a relatively easy and independent way to supply natural gas but controversies surround the practice the process involved in fracking has been shown to be harmful to the environment and a threat to our public health do the benefits of fracking outweigh the costs can improvements be made to the process that would eliminate its dangers should the government get more involved in regulating fracking or should it be up to the people

the use of fracking is a tremendously important technology for the recovery of oil and gas but the advantages and costs of fracking remain controversial this book examines the issues and social economic political and legal aspects of fracking in the united states hydraulic fracturing of oil and gas wells known commonly as fracking has been in use in the united states for more than half a century in recent years however massive expansion of shale gas fracturing across the nation has put fracking in the public eye is fracking a win win like its proponents say or are there significant costs and dangers associated with the use of this energy production technology this book examines fracking from all angles addressing the promise of the united states becoming energy independent through the use of the process to tap the massive amounts of natural gas and oil available as well as the host of problems associated with fracking groundwater contamination and increased seismic activity just to mention two that raise questions about the long term feasibility of the process as a source of natural gas the first part of the book provides a historical background of the topic a review of technical information about fracking and a detailed discussion of the social economic political legal and other aspects of the current fracking controversy the second part of the book provides a host of resources for readers seeking to learn even more in depth information about the topic supplying a chronology glossary annotated bibliography and profiles of important individuals and organizations written specifically for students and young adults the content is accessible to readers with little or no previous knowledge regarding fracking

understanding extractivism surveys how contemporary resource extractive industry works and considers the responses it inspires in local citizens and activists chapters cover a range of extractive industries operating around the world including logging hydroelectric dams mining and oil and natural gas extraction taking an activist anthropological stance anna willow examines how culture and power inform recent and ongoing disputes between projects proponents and opponents beneficiaries and victims through a series of engaging case studies she argues that diverse contemporary natural resource conflicts are underlain by a culturally constituted extractivist mind set and

embedded in global patterns of political inequity offering a synthesizing framework for making sense of complex interconnections among environmental social and political dimensions of natural resource disputes willow reflects on why extractivism exists why it matters and what we might be able to do about it the book is valuable reading for students and researchers in the environmental social sciences as well as for activists and practitioners

a guide to environmental and communication issues related to fracking and the best approach to protect communities environmental considerations associated with hydraulic fracturing operations offers a much needed resource that explores the complex challenges of fracking by providing an understanding of the environmental and communication issues that are inherent with hydraulic fracturing the book balances the current scientific knowledge with the uncertainty and risks associated with hydraulic fracking in addition the authors offer targeted approaches for helping to keep communities safe the authors include an overview of the historical development of hydraulic fracturing and the technology currently employed the book also explores the risk prevention and mitigation factors that are associated with fracturing the authors also include legal cases regulatory issues and data on the cost of recovery the volume presents audit checklists for gathering critical information and documentation to support the reliability of the current environmental conditions related to fracking operations and the impact fracking can have on a community this vital resource contains the technical information and mitigation recommendations for safety and environmental issues related to hydraulic fracturing offers an historical overview of conventional and unconventional oil and gas drilling explains the geologic and technical issues associated with fracking of tight sand and shale formulations presents numerous case studies from the united states epa and other agencies discusses issues of co produced waste water and induced seismicity from the injection of wastewater written for environmental scientists geologists engineers regulators city planners attorneys foresters wildlife biologists and others environmental considerations associated with hydraulic fracturing operations offers a comprehensive resource to the complex environmental and communication issues related to fracking

this book dispels common myths about electricity and electricity policy and reveals how government policies manipulate energy markets create hidden costs and may inflict a net harm on the american people and the environment climate change energy generation and use and environmental degradation are among the most salient and controversial political issues today our country s energy future will be determined by the policymakers who enact laws that favor certain kinds of energy production while discouraging others as much as by the energy production companies or the scientists working to reduce the

environmental impact of all energy production the reality of american energy the hidden costs of electricity provides rare insights into the politics and economics surrounding electricity in the united states it identifies the economic physical and environmental implications of distorting energy markets to limit the use of fossil fuels while increasing renewable energy production and explains how these unseen effects of favoring renewable energy may be counterproductive to the economic interests of american citizens and to the protection of the environment the first two chapters of the book introduce the subject of electricity policy in the united states and to enable readers to understand why policymakers do what they do the remainder of the book examines the realities of the major electricity sources in the united states coal natural gas nuclear hydrodynamic wind biomass solar and geothermal each of these types of energy sources is analyzed in a dedicated chapter that explains how the electricity source works and identifies how politics and public policy shape the economic and environmental impacts associated with them

the debate over how the energy industry should develop in the united states and beyond has reached a critical point the search for cleaner and more sustainable fuel sources continues but with the united states proposed withdrawal from the paris climate accord and the expansion of the keystone xl pipeline approved by the trump administration the issue of how america s energy policy should develop in the coming years is more complicated than ever readers will gain a better understanding of the factual information on the energy industry and learn the key arguments in the debate surrounding it

this book explains how and why large oil producing corporations have affected government institutions energy policy and politics in the united states and suggests how their influence can be reduced big oil is the leading factor in us energy politics today the largest oil producing companies also constitute a formidable force and interest group in american politics this book examines why oil is so important and how the prominence of huge corporations often working in the absence of countervailing forces has affected government institutions policy with a focus on energy policy and politics in the united states analyzing big oil s influence on political outcomes particularly through campaign contributions and lobbying this book shows how strong corporate power affects political participation the book documents how the influence of big oil flows in all directions intricately connecting us policies at all levels foreign policy federal state and even local regarding oil exploration development production and transportation readers will come away with a clear understanding of how these multi tiered relationships between oil corporations and governments work to the advantage of corporations and to the disadvantage of states and the citizens they represent

world acclaimed scientist vaclav smil reveals everything there is to know about nature s most sought after resource oil is the lifeblood of the modern world without it there would be no planes no plastic no exotic produce and a global political landscape few would recognise humanity s dependence upon oil looks set to continue for decades to come but what is it fully updated and packed with fascinating facts to fuel dinner party debate professor vaclav smil s oil a beginner s guide explains all matters related to the black stuff from its discovery in the earth right through to the controversy that surrounds it today

the chapters in this volume represent the latest thinking on the development and exploration of unconventional energy resources in the u s canada australia europe russia asia pacific middle east latin america and africa and shed light on its potential and future prospects in these respective regions the diversity of thinking about the shale revolution is also evident in our case studies throughout many countries in europe for example there is a strong preference for investment in renewable sources of energy over the fossil fuels in addition to environmental concerns the falling price of renewables have also made them more attractive financially consequently global investment in renewables is outpacing that of fossil fuel two to one watching this trend in 2017 the chinese government has pledged to invest 360 billion on renewable energy this would make china the largest investor in development of renewables in the world other obstacles to development of shale oil and gas in other parts of the world include lack of adequate shale resources africa the abundance of conventional energy resources middle east and north africa high cost of production russia china japan and political opposition to hydraulic fracturing france and poland despite these sentiments the economic imperatives providing employment also play a significant role in determining the future prospects for unconventional energy resources globally

this timely book begins with an overview of shale gas reservoir features such as natural fracture systems multi fractured horizontal wells adsorption desorption of methane and non linear flow within the reservoir geomechanical modelling an aspect of importance in ultra low permeability reservoirs is also presented in detail taking these complex features of shale reservoirs into account the authors develop a numerical model which is verified with field data using the history matching technique based on this model the pressure transient and production characteristics of a fractured horizontal well in a shale gas reservoir are analysed with respect to reservoir and fracture properties methods for the estimation of shale properties are also detailed minifrac tests rate transient tests rta and type curve matching are used to estimate the initial pressure permeability and fracture half length lastly future technologies such as the technique of injecting co2 into shale reservoirs are presented the book will be of interest to industrial practitioners as well as to academics and graduate students in the field of reservoir engineering

the new york times bestseller a ground breaking investigation into the oil and gas industry international corruption and world politics oil corrupt yes unimaginably lucrative of course but the enemy of democracy blowout is the oil and gas industry as we ve never seen it before as told by america s most incisive political journalist rachel maddow a blackly comic journey from washington to siberia to deep within the earth s crust and the icy arctic seas it reveals not just the greed and incompetence of big oil and gas but why the russian government hacked the 2016 u s election this is our final wake up call to stop subsidizing oil and gas to fight for transparency and to check the influence of the world s most destructive industry before it destroys our democracy each page in blowout is a revelation into the depth of corruption and greed that is infused into the international economy david lammy mp

a wall street journal besteller and a usa today best book of 2020 named energy writer of the year for the new map by the american energy society a master class on how the world works npr pulitzer prize winning author and global energy expert daniel yergin offers a revelatory new account of how energy revolutions climate battles and geopolitics are mapping our future the world is being shaken by the collision of energy climate change and the clashing power of nations in a time of global crisis out of this tumult is emerging a new map of energy and geopolitics the shale revolution in oil and gas has transformed the american economy ending the era of shortage but introducing a turbulent new era almost overnight the united states has become the world's number one energy powerhouse yet concern about energy s role in climate change is challenging the global economy and way of life accelerating a second energy revolution in the search for a low carbon future all of this has been made starker and more urgent by the coronavirus pandemic and the economic dark age that it has wrought world politics is being upended as a new cold war develops between the united states and china and the rivalry grows more dangerous with russia which is pivoting east toward beijing vladimir putin and china s xi jinping are converging both on energy and on challenging american leadership as china projects its power and influence in all directions the south china sea claimed by china and the world's most critical trade route could become the arena where the united states and china directly collide the map of the middle east which was laid down after world war i is being challenged by jihadists revolutionary iran ethnic and religious clashes and restive populations but the region has also been shocked by the two recent oil price collapses and by the very question of oil s future in the rest of this century a master storyteller and global energy expert daniel yergin takes the reader on an utterly riveting and timely journey across the world's new map he illuminates the great energy and geopolitical questions in an era of rising political turbulence and points to the profound challenges that lie ahead

there will be no energy transition from fossil fuels to renewable energies but a clean break a big bang clean almost infinite universally available energy from the sun wind and water and easy to transport over long distances and to store for months and so cheap that it could match the price of an oil barrel as early as 2020 in barely a decade 7 global energy battles have shaped up shale oil and gas and the reversal of peak oil super competitive solar and wind power cheap batteries and the electrification of transport the digitalization of power grids the descent of energy companies into stranded assets the geopolitical emergence of china and most important of all spiraling climate change these battles are now converging into a historic convulsion abruptly opening the gates of renewable hydrogen and sealing the inexorable decline of the world of fossil fuels the time has come for a new zero carbon energy world order

when oil and gas exploration was expanding across aotearoa new zealand patricia widener was there interviewing affected residents and environmental and climate activists and attending community meetings and anti drilling rallies exploration was occurring on an unprecedented scale when oil disasters dwelled in recent memory socioecological worries were high campaigns for climate action were becoming global and transitioning toward a low carbon society seemed possible yet unlike other communities who have experienced either an oil spill or hydraulic fracturing or offshore exploration or climate fears or disputes over unresolved indigenous claims new zealanders were facing each one almost simultaneously collectively these grievances created the foundation for an organized civil society to construct and then magnify a comprehensive critical oil narrative in dialogue practice and aspiration community advocates and socioecological activists mobilized for their health and well being for their neighborhoods and beaches for planet earth and planet ocean and for terrestrial and aquatic species and ecosystems they rallied against toxic climate altering pollution the extraction of fossil fuels a myriad of historic and contemporary inequities and for local just and sustainable communities ecologies economies and or energy sources in this allied ethnography quotes are used extensively to convey the tenor of some of the country s most passionate and committed people by analyzing the intersections of a social movement and the political economy of oil widener reveals a nuanced story of oil resistance and promotion at a time when many anti drilling activists believed themselves to be on the front lines of the industry s inevitable decline

the great energy transition from fossil fuels to renewable sources of energy is under way as oil insecurity deepens the extraction risks of fossil fuels rise and concerns about climate instability cast a shadow over the future of coal a new world energy economy is emerging the old economy fueled by oil natural gas and coal is being replaced with one powered by wind solar and geothermal energy the great transition details the

accelerating pace of this global energy revolution as many countries become less enamored with coal and nuclear power they are embracing an array of clean renewable energies whereas solar energy projects were once small scale largely designed for residential use energy investors are now building utility scale solar projects strides are being made some of the huge wind farm complexes under construction in china will each produce as much electricity as several nuclear power plants and an electrified transport system supplemented by the use of bicycles could reshape the way we think about mobility

if we were to ask what is the root cause of our current and unprecedented environmental crisis climate change many particularly on the progressive left would refer to the excesses of capitalism and they d be right in eco nihilism the philosophical geopolitics of the climate change apocalypse wendy lynne lee demonstrates that there are no versions of conquest capital compatible with the fact of a finite planet and that a logic whose operating premise is growth is destined to not only exhaust our planetary resources but also generate profound social injustice and geopolitical violence in its pursuit nonetheless it is clear that the violence and injustice of capital is selective some benefit greatly while others are subjugated to its pathological drive to profit hence lee argues that any comprehensive analysis of what jason moore has dubbed the capitalocene must include an equally probing account of human chauvinism that is the axes along which capital is supplied with resources and labor defined in terms of race sex gender and species these axes come ready made to the advantage of capitalist commodification without an understanding of how and why humanity will remain doomed to settling for a sustainably unjust world as opposed to realizing a just and desirable one indeed on our current trajectory we may not even achieve the sustainable the introduction of climate change into the mix of environmental deterioration the ever widening economic gap between global north and global south and the accelerating violence of terrorism civil war and human slavery make of a warming planet a combustible world the only way out requires ending the myth of endless resources a rejection of climate change denial and a radical re valuation of human centeredness not as a locus of power but as an opportunity to take moral and epistemic responsibility for a world whose biotic diversity and ecological integrity make the struggle to realize it worthwhile this solution demands not only an end to capitalism but the deliberate reclamation of value aesthetic moral and civic and a radical transformation of both personal and collective conscience lee appeals to the experiential aesthetics of john dewey and the feminist concept of the standpoint of the subjugated she argues for a version of the precautionary principle informed by an environmentally and socially responsible concept of the desirable future as the clearest path away from the precipice

this captivating book teaches readers that renewable energy is energy captured from the sun wind water earth s own heat and biomass further though it examines the issues related to consumption in general and steers readers in a practical way toward being more conservation minded readers learn how to eco energize at school and make green choices at home the book also includes a captivating 10 great questions to ask a science teacher and a myths and facts section to help readers become proactive on the issue

with the end of the cold war threats to national security have become increasingly non military in nature issues such as climate change resource scarcity infectious diseases natural disasters irregular migration drug trafficking information security and transnational crime have come to the forefront this book provides a comprehensive introduction to non traditional security concepts it does so by covering contemporary security issues in depth bringing together chapters written by experts in each area guiding you towards additional material for your essays and exams through further reading lists giving detailed explanations of key concepts testing your understanding through end of chapter questions edited by a leading figure in the field this is an authoritative guide to the key concepts that you II encounter throughout your non traditional and environmental security studies courses

the encyclopedia of technological hazards and disasters in the social sciences brings together an array of global experts to investigate explore and analyse human caused disaster events providing insights into both the origins and aftermaths of disaster events it offers advanced understanding of a broad range of disaster events facing society during the anthropocene

presents an unstinting exploration of controversial fracking technologies to consider the arguments of its supporters and detractors profiling key contributors while explaining how the practice is changing the way energy is used

examines how settler colonial and sexist infrastructures and narratives order a resource boom over the past decade new oil plays have unsettled u s energy landscapes and imaginaries settling the boom studies how the disruptive forces of an oil boom in the northern great plains are contained through the extension of settler temporalities reassertions of heteropatriarchy and the tethering of life to the volatility of oil and its cruel optimisms this collection reveals the results of sustained research in williston north dakota the epicenter of the bakken boom while the boom brought a rapid influx of capital and workers the book questions simple timelines of before and after instead settling the boom demonstrates how the unsettling forces of an oil play resolve through normative narratives and material and affective infrastructures that support settler colonialisms violent extension and its gendered orders of time and space considering a

wide range of evidence from urban and regional policy interviews with city officials media photography and film these essays analyze the ongoing material aesthetic and narrative ways of life and land in the bakken contributors morgan adamson macalester college kai bosworth virginia commonwealth u thomas s davis ohio state u jessica lehman durham u

oil and gas implied covenants for the twenty first century the next step in evolution is the first book in over 75 years to be devoted to the implied covenants that courts apply to oil and gas and other natural resource leases implied covenants which apply to all oil and gas and other natural resource leases that use a royalty structure are hugely important the united states has reclaimed its position as the world's largest natural gas producer it may soon again become the largest oil producer and the oil and gas industry once again is rapidly growing all this production comes from leased land and the covenants are the basic body of law an oilfield common law developed to carry out the basic purpose of these leases oil and gas implied covenants features an extended treatment of the issue of greatest controversy in recent years whether the lessee has to bear all costs of making oil or gas marketable or instead can deduct some of those costs from the landowner's interest oil and gas implied covenants also focuses on the duty to drill additional zones or formations this affects many shale and other unconventional reservoirs the main sources of the surge in oil and gas production over the last decade many of these leases are being held by older wells producing from conventional reservoirs the implied duty to develop and explore should empower lessors to force drilling into the new unconventional reservoirs too if prices begin to drop and lessees begin cutting back on drilling this duty will end up being a major litigation weapon in the geographic areas into which production is expanding today on another issue that will be vitally important in the future but has received far too little recognition the author surveys the law on environmental cleanup and restoration it is the author s recommendation that lessor and lessee would be better served by treating these issues under a new contract based implied duty to restore rather than the current treatment under the torts of negligence nuisance and trespass the author also recommends that courts consider a new implied duty to disclose material facts and a new duty limiting costs deducted from the royalty share to actual reasonable costs finally oil and gas implied covenants illustrates how covenants should apply to hard minerals and other natural resources leased on a royalty structure basis and it identifies the areas where implied covenants should be useful to parties in international arbitration and litigation thus it points to important new applications of this settled body of law

this book explains the place of oil in the economic and political predicaments that now confront the west thompson explains the problems that the rising cost of oil posed in the

years leading up to the 2008 crash and the difficulties that a volatile oil market now poses to economic recovery under the conditions of high debt low growth and quantitative easing the author argues that the gordian knot created by the economic and political dynamics of supply and demand oil in the present international economy poses a fundamental challenge to the assumption of economic progress embedded in western democratic expectations

we all know the bad news our economies are stagnant wages are flat and income inequality keeps rising the middle east is burning and extremism is spreading frightened voters are embracing populist outsiders and angry nationalists and no wonder we are living in an age of unprecedented irreversible decline or so we re constantly being told jonathan tepperman s the fix presents a very different picture it identifies ten pervasive and seemingly impossible challenges including immigration reform economic stagnation political gridlock corruption and islamist extremism and shows that contrary to the general consensus each has a solution and not merely a hypothetical one by taking a close look at overlooked success stories from countries as diverse as canada botswana and indonesia tepperman discovers practical advice for problem solvers of all stripes making a data driven case for optimism in a time of crushing pessimism

natural gas is the world's cleanest fossil fuel it generates less air pollution and releases less co2 per unit of useful energy than liquid fuels or coals with its vast supplies of conventional resources and nonconventional stores the extension of long distance gas pipelines and the recent expansion of liquefied natural gas trade a truly global market has been created for this clean fuel natural gas fuel for the 21st century discusses the place and prospects of natural gas in modern high energy societies vaclav smil presents a systematic survey of the qualities origins extraction processing and transportation of natural gas followed by a detailed appraisal of its many preferred traditional and potential uses and the recent emergence of the fuel as a globally traded commodity the unfolding diversification of sources particularly hydraulic fracturing and the role of natural gas in national and global energy transitions are described the book concludes with a discussion on the advantages risks benefits and costs of natural gas as a leading if not dominant fuel of the 21st century this interdisciplinary text will be of interest to a wide readership concerned with global energy affairs including professionals and academics in energy and environmental science policy makers consultants and advisors with an interest in the rapidly changing global energy industry

climate change has shifted from future menace to current event as eco conscious electricity consumers we want to do our part in weening from fossil fuels but what are we actually a part of committed environmentalists in one of north america's most

progressive regions desperately wanted energy policies that address the climate crisis for many of them wind turbines on northern new england s iconic ridgelines symbolize the energy transition that they have long hoped to see for others however ridgeline wind takes on a very different meaning when weighing its costs and benefits locally and globally some wind opponents now see the graceful structures as symbols of corrupted energy politics this book derives from several years of research to make sense of how wind turbines have so starkly split a community of environmentalists as well as several communities in doing so it casts a critical light on the roadmap for energy transition that northern new england s ridgeline wind projects demarcate it outlines how ridgeline wind conforms to antiquated social structures propping up corporate energy interests to the detriment of the swift de carbonizing and equitable transformation that climate predictions warrant it suggests therefore that the energy transition of which most of us are a part is probably not the transition we would have designed ourselves if we had been asked

fossil fuel energy is the lifeblood of the modern world before the industrial revolution humanity depended on burning wood and candle wax but with the ability to harness the energy in oil and other fossil fuels quality of life and capacity for progress increased exponentially thanks to incredible innovations in the energy industry fossil fuels are as promising safe and clean an energy resource as has ever existed in history yet highly politicized climate policies are pushing a grand scale shift to unreliable impractical incredibly expensive and far less efficient energy sources today fossil fuel has become such a dirty word that even fossil fuel companies feel compelled to apologize for their products in fueling freedom energy experts stephen moore and kathleen hartnett white make an unapologetic case for fossil fuels turning around progressives protestations to prove that if fossil fuel energy is supplanted by green alternatives for political reasons humanity will take a giant step backwards and the planet will be less safe less clean and less free

contemporary international affairs are largely shaped by widely differing thematic issues and actors such as nation states international institutions ngos and multinational companies obtaining a deeper understanding of these multifaceted themes and actors is crucial for developing a genuine understanding of contemporary international affairs this book provides undergraduate and postgraduate students of global politics and international relations with the necessary knowledge of the forces that shape and dominate our global political economic and social cultural environment the book significantly enhances our understanding of the essentials of contemporary international affairs understanding global politics takes a pragmatic approach to international relations with each chapter being written by an expert in their respective field part i

provides the historical background that has led to the current state of world affairs it also provides clear outlines of the major yet often complex theories of international relations part ii is dedicated to the main actors in global politics it discusses actors such as the most important nation states the un eu international organizations ngos and multinational companies part iii considers important contemporary themes and challenges in global politics including non state centered challenges chapters focus on international terrorism energy and climate change issues religious fundamentalism and demographic changes the comprehensive structure of this book makes it particularly viable to students who wish to pursue careers in international organizations diplomacy consultancy the think tank world and the media

throughout the us oil and gas shale are being hydrofracked to produce petroleum and natural gas oil or tar sands from canada is being processed thereby generating large amounts of crude this book places the unconventional fossil fuels revolution that is taking place in north america within the context of great power politics

water in north american environmental history offers 25 cases studies that explore the range of uses and perceptions of water throughout canadian mexican and united states history water has served a myriad of purposes historically as human sustenance agricultural irrigation sanitation fire protection military defense power generation transportation and much more water and its uses provide an excellent entrée into the study of humans and the environment not only because water is a vital resource for life but also because water as a medium is so intimately woven into the everyday experiences of humans and into society s economic political and social fabric a north american perspective is not representative of the world's water use but it is an area with a linked history and many overlapping human and environmental features and concerns with a continental perspective the book explores many disparate topics without being confined to the history and experiences of just one country the chapters are short but descriptive and departure points for what they tell us about the human experience in dealing with water and the environmental implications of water use the text leads students to consider water in relation to society and to the past the book will be of interest to students of environmental history geography and the environmental sciences

in 1999 texas passed a landmark clean energy law beginning a groundswell of new policies that promised to make the us a world leader in renewable energy as leah stokes shows in short circuiting policy however that policy did not lead to momentum in texas which failed to implement its solar laws or clean up its electricity system examining clean energy laws in texas kansas arizona and ohio over a thirty year time frame stokes argues that organized combat between advocate and opponent interest groups is central to

explaining why states are not on track to address the climate crisis she tells the political history of our energy institutions explaining how fossil fuel companies and electric utilities have promoted climate denial and delay stokes further explains the limits of policy feedback theory showing the ways that interest groups drive retrenchment through lobbying public opinion political parties and the courts more than a history of renewable energy policy in modern america short circuiting policy offers a bold new argument about how the policy process works and why seeming victories can turn into losses when the opposition has enough resources to roll back laws

this book is organized to examine the major subjects taught in american politics through the lens of twenty five hot button issues affecting american politics and policy today these key issues reflect the ideas principles concerns fears morals and hopes of the american people the authors argue that these issues are the heart and soul of the american political system serving as the basis for the disagreements that drive citizens public servants and elected officials into action features of this innovative text examines 25 issues in light of the 2016 presidential election and beyond up to date chapters reflect important developments in the arenas of immigration health care race relations and civil rights gun control gay rights and money and politics in particular includes international coverage with recent and ongoing events surrounding iran syria israel and palestine and china a chapter on russia puts recent developments in syria ukraine crimea and the near abroad in context with us foreign policy

starting from the key concept of geo economics this book investigates the new power politics and argues that the changing structural features of the contemporary international system are recasting the strategic imperatives of foreign policy practice states increasingly practice power politics by economic means whether it is about iran s nuclear programme or russia s annexation of crimea western states prefer economic sanctions to military force most rising powers have also become cunning agents of economic statecraft china for instance is using finance investment and trade as means to gain strategic influence and embed its global rise yet the way states use economic power to pursue strategic aims remains an understudied topic in international political economy and international relations the contributions to this volume assess geo economics as a form of power politics they show how power and security are no longer simply coupled to the physical control of territory by military means but also to commanding and manipulating the economic binds that are decisive in today s globalised and highly interconnected world indeed as the volume shows the ability to wield economic power forms an essential means in the foreign policies of major powers in so doing the book challenges simplistic accounts of a return to traditional military driven geopolitics while not succumbing to any unfounded idealism based on the supposedly

stabilising effects of interdependence on international relations as such it advances our understanding of geo economics as a strategic practice and as an innovative and timely analytical approach this book will be of much interest to students of security studies international political economy foreign policy and international relations in general

a vast number of studies have documented the economic and geological effects of oil production but the impact of boom and bust cycles on individuals and communities has received less attention boom or bust remedies this gap by highlighting the personal experiences of those directly affected in an economy dominated by oil and natural gas production the permian basin is one of the largest oil producing regions in the united states people who live there have benefited from explosive growth only to see opportunities vanish with sudden industry downturns in 2016 the national endowment for the humanities funded a grant for the study and collection of energy narratives in this economically volatile region boom or bust derives from that community initiative and offers a unique contribution to the developing field of energy humanities the oil field industry may seem to be all about numbers but as boom or bust demonstrates residents of oil and gas country whether they work in the oil field or not are at the mercy of an ever shifting economy when the price of oil rises companies move in and newcomers flood the area expanding the employment force and as the population booms so does the infrastructure of cities when prices drop though families must make difficult choices whether to stay put or follow the oil to another location with the ensuing declines in population small businesses close their doors and unemployment levels rise despite the inevitable declines and despite the increase in alternative energy resources many west texans feel a sense of pride that borders on patriotism boom or bust reveals the full complexity of boomtown culture

this book offers a sustained but varying examination of the spatial temporal dynamics that compose place essays blend personal and scholarly accounts of texas sites examining place as a creation formed through the collaboration of a body with a particular space

successful hedge fund investing begins with well informed strategy a guide to starting your hedge fund is a practical definitive how to guide designed to help managers design and launch their own funds and to help investors select and diligence new funds the first book to examine the practical aspects of setting up and operating funds with a focus on energy commodity markets this book scrutinises the due diligence process and comprehensively reviews the opportunities and risks of all energy commodity markets as hedge fund investments extensive planning and strategy advice prove invaluable to prospective fund managers and investors alike and detailed discussion of the markets

constraints help inform procedural decisions readers gain insight into practical matters including legal and commercial structures due diligence fund raising operations and more allowing them to construct a concrete investment plan before ever touching a penny asset managers are looking to energy commodities to provide attractive uncorrelated if volatile returns these high returns however are accompanied by high risk few investors have experience evaluating these investment opportunities and few prospective fund managers understand the market fundamentals and their associated risks this book provides the answers sorely lacking in hedge fund literature giving investors and fund managers the background they need to make smarter decisions understand the markets structures opportunities and risks develop a comprehensive well informed investment strategy conduct thorough due diligence with a detailed plan examine the practical aspects of fund raising legal and tax structure and more oil has long been traded by hedge funds but electricity the fuels that generate electricity and the environmental products like emissions allowances and weather derivatives have become the new hot investment strategies these high returns come with higher risk but a guide to starting your hedge fund ensures participants have essential information at their disposal

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a spirited and incisive survey of economic geography a world made for money begins with the author stopped at a red light in norman oklahoma observing the landscape of drugstores and banks and for that matter the stoplight and roads themselves bret wallach observes everything i see has been built to make money or at the very least to facilitate making money this he argues is a global phenomenon that nonetheless has occurred only within the past hundred years or so although guidebooks and culture brokers often disparage these landscapes of commerce wallach recipient of a macarthur genius grant argues that we would do well to pay them close attention a world made for money provides a compelling condensed tour of our world from silicon valley to sri lanka from post soviet russia to post apartheid south africa wallach looks at how human beings are buying manufacturing working growing and shipping food and accessing the natural resources to fuel it all these essential facets of daily life propelled by the profit motive

represent a transnational force shaping our surroundings and environment in ways that may not always be beautiful or even healthy but that are fundamental to understanding how the world works in the twenty first century wallach examines the relationship between acquisitiveness and landscape reveals surprising contradictions and nuances and provides fresh perspective on politically charged topics such as sprawl deindustrialization and agribusiness

understanding the complex history of us fossil fuel use can help us build a sustainable future in hydrocarbon nation thor hogan looks at how four technological revolutions industrial agricultural transportation and electrification drew upon the enormous hydrocarbon wealth of the united states transforming the young country into a nation with unparalleled economic and military potential each of these advances engendered new government policies aimed at strengthening national and economic security the result was unprecedented energy security and the creation of a nation nearly impervious to outside threats however when this position weakened in the decades after the peaking of domestic conventional oil supplies in 1970 the american political and economic systems were severely debilitated at the same time climate change was becoming a major concern fossil fuels created the modern world yet burning them created a climate crisis hogan argues that everyday americans and policymakers alike must embrace the complexity of this contradiction in order to help society chart a path forward doing so hogan explains will allow us to launch a critically important sustainability revolution capable of providing energy and climate security in the future hydrocarbon nation provides reasons to believe that we can succeed in expanding on the benefits of the hydrocarbon age in order to build a sustainable future

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# Decoding the Conversion: 135 Pounds to Kilograms - A Comprehensive Guide

Navigating different unit systems can be a source of confusion, particularly when dealing with weights and measures. Many individuals, whether planning international travel, following a weight-loss program, or simply understanding global data, find themselves needing to convert pounds (lbs) to kilograms (kg). This article aims to demystify the conversion of 135 pounds to kilograms, providing a clear, step-by-step explanation, practical examples, and frequently asked questions to solidify your understanding.

# Understanding the Units: Pounds and Kilograms

Before diving into the conversion, let's understand the units involved. The pound (lb) is a unit of mass in the imperial and US customary systems. The kilogram (kg), on the other hand, is the base unit of mass in the International System of Units (SI), the most widely used system globally. Understanding this fundamental difference helps clarify why conversion is necessary when dealing with international contexts or comparing data from various sources.

#### The Conversion Factor: The Key to Accuracy

The cornerstone of any unit conversion is the conversion factor. This factor represents the ratio between the two units. For pounds and kilograms, the conversion factor is approximately 2.20462 pounds per kilogram. This means that 1 kilogram is roughly equivalent to 2.20462 pounds. To convert pounds to kilograms, we use this factor in the following manner: Kilograms = Pounds / 2.20462

# Converting 135 Pounds to Kilograms: A Stepby-Step Guide

Now, let's apply this to our specific problem: converting 135 pounds to kilograms. Using the formula above: Kilograms = 135 lbs / 2.20462 lbs/kg Kilograms 61.23 kg Therefore, 135

pounds is approximately equal to 61.23 kilograms.

# Practical Applications and Real-World Examples

This conversion has numerous practical applications. Consider these examples: International Shipping: If you're shipping a package weighing 135 pounds internationally, you'll need to know its weight in kilograms to comply with international shipping regulations and calculate accurate shipping costs. Medical Context: Doctors often use kilograms to record patient weight, particularly in international medical settings or when using internationally standardized medical charts. A patient weighing 135 pounds would have their weight recorded as approximately 61.23 kg. Fitness and Nutrition: Many fitness trackers and nutrition apps allow users to input weight in either pounds or kilograms. Understanding the conversion allows for seamless data tracking and comparison regardless of the chosen unit. A weight-loss goal of 135 pounds could be equivalently expressed as 61.23 kg. Scientific Research: In scientific studies involving mass, consistency in units is crucial. Converting pounds to kilograms ensures compatibility and avoids errors in data analysis.

#### **Potential Sources of Error and Precision**

While the conversion factor of 2.20462 is accurate, using a more simplified factor like 2.2 might introduce minor inaccuracies, especially when dealing with larger weights. The level of precision required dictates the number of decimal places to use. For most practical purposes, rounding to one or two decimal places (e.g., 61.2 kg) provides sufficient accuracy. However, for highly precise applications, using the full conversion factor is recommended.

#### Conclusion

Converting 135 pounds to kilograms is straightforward once you understand the fundamental conversion factor. This seemingly simple calculation has significant implications in various aspects of life, from international shipping and healthcare to fitness tracking and scientific research. Remembering the formula and the approximate conversion factor (2.20462 lbs/kg) will allow you to easily navigate between these common units of mass.

#### Frequently Asked Questions (FAQs)

1. Can I use an online converter instead of calculating manually? Yes, many reliable online converters are available, providing quick and accurate conversions. However, understanding the underlying principles is valuable for avoiding errors and interpreting results. 2. What if I need to convert kilograms back to pounds? Simply reverse the formula: Pounds - Kilograms 2.20462 3. Why is the conversion factor not exactly 2.2? The exact conversion factor is 2.20462, and using 2.2 introduces a slight approximation. The more precise value ensures accuracy, particularly for larger weights. 4. Is the conversion the same for weight and mass? In everyday usage, the terms weight and mass are often used interchangeably. However, there's a subtle difference. Weight is a measure of the force of gravity on an object, while mass is the amount of matter in an object. The conversion factor remains the same for practical purposes in most scenarios. 5. Are there other units of mass I should be aware of? Yes, other units of mass exist, including grams (g), tonnes (t), and ounces (oz). Understanding the conversion factors between these units is essential depending on the context. Online converters can assist in these conversions as well.

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