

VACLAV SMIL



MATERIALS AND
DEMATERIALIZATION

MAKING THE MODERN WORLD

WILEY

Making The Modern World Materials And Dematerialization Vaclav Smil

Vaclav Smil



Making The Modern World Materials And Dematerialization Vaclav Smil:

SUMMARY - Making The Modern World: Materials And Dematerialization By Vaclav Smil Shortcut Edition, Our summary is short simple and pragmatic It allows you to have the essential ideas of a big book in less than 30 minutes As you read this summary you will learn that the increased consumption of materials is the major feature of the modern world You will also learn that the invention of the steam engine revolutionized mankind a long term dematerialization without radical changes in lifestyle is very unlikely humanity s material progress is experiencing two successive ages energy is the most important of all materials our civilization is at a crossroads in terms of our consumption of materials the current level of material consumption is very recent if we place it in the long historical period The consumption of materials is at the heart of economic production without which it could not exist Materials of all kinds be they mineral vegetable etc condition our daily life modern life that of industrialized countries whose societies are consumer societies Their production use and destruction once they have become waste are the subject of this book which examines the costs of our society s dependence on materials as well as the possible paths to a progressive dematerialization which the threatened integrity of the biosphere makes indispensable Buy now the summary of this book for the modest price of a cup of coffee *Making the Modern World* Vaclav Smil,2013-12-16 How much further should the affluent world push its material consumption Does relative dematerialization lead to absolute decline in demand for materials These and many other questions are discussed and answered in Making the Modern World Materials and Dematerialization Over the course of time the modern world has become dependent on unprecedented flows of materials Now even the most efficient production processes and the highest practical rates of recycling may not be enough to result in dematerialization rates that would be high enough to negate the rising demand for materials generated by continuing population growth and rising standards of living This book explores the costs of this dependence and the potential for substantial dematerialization of modern economies Making the Modern World Materials and Dematerialization considers the principal materials used throughout history from wood and stone through to metals alloys plastics and silicon describing their extraction and production as well as their dominant applications The evolving productivities of material extraction processing synthesis finishing and distribution and the energy costs and environmental impact of rising material consumption are examined in detail The book concludes with an outlook for the future discussing the prospects for dematerialization and potential constraints on materials This interdisciplinary text provides useful perspectives for readers with backgrounds including resource economics environmental studies energy analysis mineral geology industrial organization manufacturing and material science *Materials and Dematerialization* Vaclav Smil,2023-05-18 Der weltbekannte Wissenschaftler Vaclav Smil analysiert das kritische Thema der nachhaltigen Ressourcennutzung das f r Forschung und Politik von gro em Interesse ist Im Laufe der Zeit ist die moderne Welt von Materialstr men in ungeahntem Ausma abh ngig geworden Selbst die effizientesten Produktionsverfahren und ein gr tm

gleicher Recyclinganteil reichen m gleicherweise nicht aus um die Dematerialisierung so weit voranzutreiben dass sie die zunehmende Nachfrage nach Materialien ausgleichen k nnte die aus dem anhaltenden Bev lkerungswachstum und steigenden Lebensstandards entsteht In Materials and Dematerialization werden die wichtigsten Materialien der Geschichte betrachtet von Holz und Stein ber Metalle und Legierungen bis zu Kunststoffen und Silizium mit einer Beschreibung ihrer Gewinnung bzw Herstellung und der wichtigsten Anwendungen In einer detaillierten Analyse werden die steigende Produktivit t bei der Gewinnung und Verarbeitung Synthese Veredelung und Verteilung von Materialien sowie die Energiekosten und die Umweltauswirkungen des zunehmenden Materialverbrauchs untersucht Gleichzeitig wird die Beziehung zwischen sozio konomischer Entwicklung und Ressourcennutzung insbesondere in Bezug auf die wichtigsten Technologien und Innovationen betrachtet Das Buch endet mit einem Ausblick auf die Zukunft Er rtert werden dabei die M glichkeiten der Dematerialisierung eine m gliche Beschr nkung von Materialien und eine aktualisierte Einsch tzung des Materialbedarfs sowie die Prognosen f r die n chsten Jahrzehnte Nach dem gro en Erfolg seiner Ver ffentlichung von 2013 hat Vaclav Smil sein wegweisendes Werk nun gr ndlich bearbeitet In der neuen Ausgabe werden die Fortschritte der letzten zehn Jahren herausgestellt und auch die Statistiken und Literaturhinweise wurden auf den Stand von 2022 gebracht Zudem enth lt die aktualisierte Ausgabe neue Inhalte die sich ausdr cklich damit befassen welche Materialien f r die globale Energiewende und die Lebensmittelsicherheit einer weiterhin wachsenden Weltbev lkerung erforderlich sind SUMMARY Edition Shortcut (author),1901 Zeitschrift für Medienwissenschaft 23 Gesellschaft für Medienwissenschaft e.V.,2020-09-22 Die Zeitschrift f r Medienwissenschaft steht f r eine kulturwissenschaftlich orientierte Medienwissenschaft die Untersuchungen zu Einzelmedien aufgreift und durchquert um nach politischen Kr ften und epistemischen Konstellationen zu fragen Sie stellt Verbindungen zu internationaler Forschung ebenso her wie zu verschiedenen Disziplinen und bringt unterschiedliche Schreibweisen und Textformate Bilder und Gespr che zusammen um der Vielfalt mit der geschrieben nachgedacht und experimentiert werden kann Raum zu geben Heft 23 widmet sich mit dem Begriff der Zirkulation einer zentralen Analyse und Beschreibungskategorie der Medienwissenschaft Er wird verwendet um die Bewegung von Filmen und Serien von Nachrichten und Inhalten aber auch von Containern und Viren Geld und Toxinen Affekten und Verwaltungsformularen und vielem mehr zu erfassen Insbesondere im Kontext der Akteur Netzwerk Theorie zielt er darauf ab die Herstellung globaler Ordnungen durch das Nachzeichnen materieller Verkn pfungen bersetzungen und Vermittlungen zu verstehen Indem er bereits selbst Verbindungen zwischen Medien kologien und konomien herstellt gibt er Anlass die mediale Ordnung von Kreisl ufen zu untersuchen Der Fokus liegt dabei auf den Dimensionen der Schlie ung Beobachtung und Infrastruktur Wie die Welt wirklich funktioniert Vaclav Smil,2023-03-16 Der tschechisch kanadische Wissenschaftler Vaclav Smil ist einer der weltweit f hrenden Experten f r Energiefragen In diesem Buch unterzieht er die Hoffnung auf eine schnelle Umstellung auf erneuerbare Energien einem Realit tscheck und konfrontiert die politiischen Ziele

mit der wissenschaftlichen Realität Dabei erinnert er daran auf welchen materiellen Grundlagen unser modernes Leben beruht und wie abhängig wir bei ihrer Produktion bis auf Weiteres von fossilen Brennstoffen bleiben werden Denn nicht Datenflüsse sind der harte Kern unserer Zivilisation sondern so unaufregende Dinge wie Stahl Zement Ammoniak und Plastik Wer die Welt verändern will sollte erst verstehen wie sie wirklich funktioniert Die Menschheit hat so viel Wissen angehäuft wie noch nie in ihrer Geschichte Doch für den Einzelnen werden immer mehr Geräte und Produkte unseres alltäglichen Lebens zu einer Art Blackbox Wir können damit umgehen aber verstehen nicht mehr wie sie wirklich funktionieren Immer mehr Menschen haben zudem nur noch oberflächliche Vorstellungen davon wie wir die Nahrungsmittel Rohstoffe und Güter herstellen auf denen unsere Gesellschaft materiell beruht Dies führt zu Fehleinschätzungen etwa der wir könnten unsere Zivilisation in kurzer Zeit von fossilen Brennstoffen auf erneuerbare Energien umstellen Denn es geht nicht nur um eine nachhaltige Stromproduktion sondern etwa auch um alternative Verfahren bei der Herstellung von Zement Stahl Plastik und Dingen Technische Innovationen allein reichen nicht sie müssen auch kommerziell funktionieren und weltweit implementiert werden in hunderttausenden Fabriken und Produktionsstätten Wer sich über die Zukunft unseres Planeten Gedanken macht der sollte die Fakten kennen die Vaclav Smil in diesem Buch liefert

A Cultural History of Objects in the Modern Age Laurie Wilkie, John Chenoweth, 2022-08-31 A Cultural History of Objects in the Modern Age covers the period 1900 to today a time marked by massive global changes in production transportation and information sharing in a post colonial world New materials and inventions from plastics to the digital to biotechnology have created unprecedented scales of disruption shifting and blurring the categories and meanings of the object If the 20th century demonstrated that humans can be treated like things whilst things can become ever more human where will the 21st century take us The 6 volume set of the Cultural History of Objects examines how objects have been created used interpreted and set loose in the world over the last 2500 years Over this time the West has developed particular attitudes to the material world at the centre of which is the idea of the object The themes covered in each volume are objecthood technology economic objects everyday objects art architecture bodily objects object worlds Laurie A Wilkie is Professor at the University of California Berkeley USA John M Chenoweth is Associate Professor at the University of Michigan Dearborn USA Volume 6 in the Cultural History of Objects set General Editors Dan Hicks and William Whyte

Der Deutschunterricht und die ökologische Krise Sebastian Susteck, 2025-02-12 Wie soll das Fach Deutsch auf die ökologische Multi Krise reagieren Dass der Deutschunterricht einen wesentlichen Beitrag zur Bildung für nachhaltige Entwicklung BNE mehr noch zur Ausbildung einer umfassenden ecological literacy leisten kann zeigt Sebastian Susteck in diesem Band Er verbindet grundsätzliche Überlegungen zur Funktion und den Zielen eines neuen Deutschunterrichts mit Hinweisen und Anregungen zu den zentralen Unterrichtsgegenständen Sachtexten und literarischen Texten Kommunikation Sprache und Medien Wegweisend für die Zukunft des Fachs in der Schule

Size Vaclav Smil, 2023-05-04 There is no author whose books I look forward to more Bill Gates The New York Times bestselling author

returns with a mind opening exploration of how size defines life on Earth Explaining the key processes shaping size in nature society and technology Smil busts myths around proportions from bodies to paintings and the so called golden ratio tells us what Jonathan Swift got wrong in Gulliver s Travels the giant Brobdingnagian s legs would buckle under their enormous weight and dives headfirst into the most contentious issue in ergonomics the size of aeroplane seats It is no exaggeration to say this fascinating and wide ranging tour de force will change the way you look at absolutely everything Vaclav Smil is a phenomenon with an appetite for facts over prejudice and fashion Essential reading for anyone who cares about the future

Lord Norman Foster Windfall Meghan L. O'Sullivan,2017-09-12 A powerful argument for how America should capitalise on the New Energy Abundance The Financial Times Riveting and comprehensive a smart deeply researched primer on the subject The New York Times Book Review Windfall is the boldest profile of the world s energy resources since Daniel Yergin s The Quest Harvard professor and former Washington policymaker Meghan L O Sullivan reveals how fears of energy scarcity have given way to the reality of energy abundance This abundance is transforming the geo political order and boosting American power As a new administration focuses on raising American energy production O Sullivan s Windfall describes how new energy realities have profoundly affected the world of international relations and security New technologies led to oversupplied oil markets and an emerging natural gas glut This did more than drive down prices It changed the structure of markets and altered the way many countries wield power and influence America s new energy prowess has global implications It transforms politics in Russia Europe China and the Middle East O Sullivan explains the consequences for each region s domestic stability as energy abundance upends traditional partnerships creates opportunities for cooperation The advantages of this new abundance are greater than its downside for the US it strengthens American hard and soft power This powerful book describes how new energy realities creates a strategic environment to America s advantage The Rare Earths Era Juan Manuel Chomón,2020-01-01 The Rare Earths Era Strategic Metals Dependency World Order addresses the centrality of 17 rare metallic elements necessary to the manufacture of a vast panoply of products developed through modern technology and in use worldwide from smartphones televisions computers and medical scanners to components of the most modern weapons systems in Western arsenals Rare earths are hence crucial to strategic planning whether for business combating climate change warfare or ascendancy in world order Called rare earths because of the low concentration in which they are found which makes their extraction polluting and difficult the miraculous properties of these elements can endow other materials with an unalterable super magnetism an amazing hardness or robustness a unique luminescence or fluorescence and a special conductivity The world as we now experience enjoy and understand it is absolutely dependent on access to these metals in order to produce today s technology Without that it s goodbye to modernity Rare earths may be key to understanding some of the most pressing geopolitical issues of our time This book addresses the following questions How did the world become so dependent and addicted to Chinese rare earth metals Will critical minerals provide China with

geopolitical leverage How will the global needs for rare earths impact the transition to clean energy What is the environmental impact of rare earths What is the role of the strategic minerals in the de dollarization process Will we see new wars over rare earths resources Are critical minerals really on the radar of Western politicians *Camera Geologica* Siobhan Angus,2024-02-05 In *Camera Geologica* Siobhan Angus tells the history of photography through the minerals upon which the medium depends Challenging the emphasis on immateriality in discourses on photography Angus focuses on the inextricable links between image making and resource extraction revealing how the mining of bitumen silver platinum iron uranium and rare earth elements is a precondition of photography Photography Angus contends begins underground and in photographs of mines and mining frequently returns there Through a materials driven analysis of visual culture she illustrates histories of colonization labor and environmental degradation to expose the ways in which photography is enmeshed within and enables global extractive capitalism Angus places nineteenth century photography in dialogue with digital photography and its own entangled economies of extraction demonstrating the importance of understanding photography s complicity in the economic geopolitical and social systems that order the world **The World in a Grain** Vince Beiser,2018-08-07 A finalist for the PEN E O Wilson Literary Science Writing Award The gripping story of the most important overlooked commodity in the world sand and the crucial role it plays in our lives After water and air sand is the natural resource that we consume more than any other even more than oil Every concrete building and paved road on Earth every computer screen and silicon chip is made from sand From Egypt s pyramids to the Hubble telescope from the world s tallest skyscraper to the sidewalk below it from Chartres stained glass windows to your iPhone sand shelters us empowers us engages us and inspires us It s the ingredient that makes possible our cities our science our lives and our future And incredibly we re running out of it *The World in a Grain* is the compelling true story of the hugely important and diminishing natural resource that grows more essential every day and of the people who mine it sell it build with it and sometimes even kill for it It s also a provocative examination of the serious human and environmental costs incurred by our dependence on sand which has received little public attention Not all sand is created equal Some of the easiest sand to get to is the least useful Award winning journalist Vince Beiser delves deep into this world taking readers on a journey across the globe from the United States to remote corners of India China and Dubai to explain why sand is so crucial to modern life Along the way readers encounter world changing innovators island building entrepreneurs desert fighters and murderous sand pirates The result is an entertaining and eye opening work one that is both unexpected and involving rippling with fascinating detail and filled with surprising characters **Handbook of the Anthropocene** Nathanaël Wallenhorst,Christoph Wulf,2023-08-21 This Handbook is a collection of contributions of more than 300 researchers who have worked to grasp the Anthropocene this new geological epoch characterised by a modification of the conditions of habitability of the Earth for all living things in its biogeophysical and socio political reality These researchers also sought to define a historical and prospective anthropology

that integrates social economic cultural and political issues as well as of course environmental ones What are the anthropological changes needed to ensure that our human adventure will be able to continue in the Anthropocene And what are the educational and political issues involved Anthropocene is fast becoming a widely used term but thus far there been no reference work explaining the thoughts of the greatest experts of the present day on this subject at the intersection of biogeophysical and socio political knowledge A scientific and political concept but which is also the conceptual vehicle for conveying the scientific community s sense of concern this complex term is explained by international experts as they reflect on scientific arguments taking place in earth system science the social sciences and the humanities What these researchers from different disciplines have in common is a healthy concern for the future and how to prepare for it in the Anthropocene and also the identification of possible anthropological changes This Handbook encourages readers to immerse themselves in reflections on the human adventure through descriptions of our differing heritages and the future that is in the process of being written

Flatness B. W. Higman, 2017-06-15 There are few truths about the modern world that are more self evident than this it is flat We write on flat paper laid atop flat desks We look at flat images on flat screens mounted on flat walls or we press flat icons on flat phones while we navigate flat streets Everywhere we go it seems the structures around us at one time or another had a level placed upon them to ensure they were perfectly flat Yet such engineered planar surfaces have become so pervasive and fundamental to our lives that we barely notice their existence In this highly original study B W Higman employs a wide variety of approaches to better understand flatness that level platform upon which the dramas of modern life have played out Higman looks at the ways that humans have perceived the natural world around them moving from Flat Earth theories to abstract geometric concepts to the flatness problem of modern cosmology Along the way he shows that we have simultaneously sought flatness in our everyday lives and also disparaged it as a featureless empty and monotonous quality He discusses the ways flatness figures as a metaphor for those things or people who are boring dull or lacking energy or inspiration and he shows how the construction of flat surfaces has contributed to a degradation of visual diversity At the same time he also shows how we have pursued flatness as an engineering ideal and how we have used it conceptually in art music and literature Written with wit and wisdom and splendidly illustrated throughout this book will appeal to all those who are interested in the topography of the modern world to anyone who has ever marveled at the feel of its smooth surfaces or felt oppressed by the tyranny of its featurelessness

Numbers Don't Lie Vaclav Smil, 2020-10-01 My favourite author has done it again Numbers Don't Lie is by far his most accessible book to date and I highly recommend it to anyone who is curious about the world I unabashedly recommend this book to anyone who loves learning Bill Gates Is flying dangerous How much do the world s cows weigh And what makes people happy From Earth s nations and inhabitants through the fuels and foods that energize them to the transportation and inventions of our modern world and how all of this affects the planet itself in Numbers Don't Lie Professor Vaclav Smil takes us on a fact finding adventure using surprising

statistics and illuminating graphs to challenge lazy thinking Smil is on a mission to make facts matter because after all numbers may not lie but which truth do they convey Smil's title says it all to understand the world you need to follow the trendlines not the headlines This is a compelling fascinating and most important realistic portrait of the world and where it's going Steven Pinker The best book to read to better understand our world It should be on every bookshelf Linda Yueh There is perhaps no other academic who paints pictures with numbers like Smil Guardian Vaclav Smil is Distinguished Professor Emeritus at the University of Manitoba He is the author of over forty books on topics including energy environmental and population change food production and nutrition technical innovation risk assessment and public policy No other living scientist has had more books on a wide variety of topics reviewed in Nature A Fellow of the Royal Society of Canada in 2010 he was named by Foreign Policy as one of the Top 100 Global Thinkers This is his first book for a more general readership

Literaturunterricht und Krise Julia Stetter, Sebastian Susteck, 2025-07-11 Der Literaturunterricht steht unter Druck Bildungspolitisch ungeliebt und didaktisch zunehmend ratlos betrachtet lässt Literatur sich nur schwer in Kompetenzraster integrieren und steht zudem im Verdacht zu den existenziellen Problemen der Gegenwart zu wenig zu sagen zu haben Der Band öffnet neue Perspektiven auf den heutigen Literaturunterricht der in multiplen Krisen gefangen scheint und im Kreuzfeuer von Entwicklungen steht die allgemein mit Problemen deutscher Schulen assoziiert werden Die Beiträge betonen dagegen die Bedeutung der Literatur für den Unterricht sowie die Rolle des Literaturunterrichts in der Reaktion auf die Krisen der Gegenwart

Materials and Sustainability Julia L. Freer Goldstein, Paul Foulkes-Arellano, 2024-04-12 This book examines sustainable manufacturing from the extraction of materials to processing use and disposal and argues that significant changes in all of the above are needed for the world to progress toward a more circular economy Materials and processing methods are usually chosen with performance as the key metric Why has our society embraced plastics Because they work In most cases they are lighter easier to manufacture and less expensive than the metal wood glass or stone they have replaced Why do industrial manufacturers use toxic chemicals Because they are effective but the unintended consequences may be severe By learning how various materials are made and what happens when they are recycled readers will better understand the value of materials and the challenges that manufacturers face when trying to make their facilities and products less toxic and less wasteful The three chapters in Part I provide essential background about materials in the circular economy chemicals and waste Part II delves into specific materials It includes chapters on plastics metals wood and paper products glass and novel materials Part III covers recycling and manufacturing processes and Part IV delves into practical considerations including the effect of regulations concluding with a chapter that helps readers translate the information presented into action Interviews with industry experts round out the chapters and offer valuable insights Materials and Sustainability is a must read for business professionals who are serious about making their companies as environmentally responsible as possible and for business and engineering students who want to begin their careers with

practical knowledge about materials and their impacts Our Anthropocene: Eco Crises Gary van Wyk, 2018-03-27 The artists in this exhibition respond to the ecological crises of our Anthropocene which we ignore at the peril of our own ecocide Artists Include Alma Collective Christoph Both Asmus Owanto Robbin Ami Silverberg Andreas Wengel Herv Youmbi Thorsten Baensch Karin D r r Carolin R ckelein Zoe Zin Moe Sammy Baloji Julie Dodd Stephan Erasmus Nuno Henrique Daniel Knorr Guy Laram e Gideon Mendel Barbara Milman Heidi Neilson Tara O Brien Sara Parkel Susan Reynolds Ian Van Coller Shu Ju Wang K the Wenzel Thomas Parker Williams Michelle Wilson Philip Zimmermann Climate Change in the Global Workplace Nithya Natarajan, Laurie Parsons, 2021-05-03 This book offers a timely exploration of how climate change manifests in the global workplace It draws together accounts of workers their work and the politics of resistance in order to enable us to better understand how the impacts of climate change are structured by the economic and social processes of labour Focusing on nine empirically grounded cases of labour under climate change this volume links the tools and methods of critical labour studies to key debates over climate change adaptation and mitigation in order to highlight the active nature of struggles in the climate impacted workplace Spanning cases including commercial agriculture in Turkey labour unions in the UK and brick kilns in Cambodia this collection offers a novel lens on the changing climate showing how both the impacts of climate change and adaptations to it emerge through the prism of working lives Drawing together scholars from anthropology political economy geography and development studies this book will be of great interest to students and scholars of climate change adaptation labour studies and environmental justice More generally it will be of interest to anybody seeking to understand how the changing climate is changing the terms conditions and politics of the global workplace

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