Nyc Air Quality History

NYC Air Quality History: A Breathtaking (and Sometimes Suffocating) Retrospective

New York City, the city that never sleeps, has a long and complex history, and a significant part of that narrative is woven into the very air its inhabitants breathe. This comprehensive exploration delves into the NYC air quality history, charting its evolution from periods of intense pollution to the ongoing efforts towards cleaner air. We'll examine key turning points, influential legislation, and the ongoing challenges facing the city in its pursuit of breathable air for all its residents. Prepare to journey through time, uncovering the fascinating – and sometimes alarming – story of NYC's atmospheric past.

The Early Years: A Smoky, Sooty Beginning (Pre-1960s)

Before stringent environmental regulations, New York City's air quality was drastically different. The pre-1960s era was characterized by ubiquitous coal-burning for heating and industry. Factories belched out plumes of smoke, and countless horse-drawn carriages contributed to a thick, persistent haze.

The Great Smog of 1953: A Wake-Up Call

While not on the scale of London's Great Smog, NYC experienced its own severe pollution events. The Great Smog of 1953, a period of stagnant air and intense industrial emissions, served as a chilling preview of the potential consequences of unchecked pollution. This event, though less deadly than its London counterpart, highlighted the urgent need for change and helped lay the groundwork for future environmental legislation.

The Rise of the Automobile: A New Era of Pollution

The post-war boom brought a rapid increase in car ownership. This influx of vehicles, coupled with continued industrial emissions, created a cocktail of pollutants that significantly impacted air quality. The hazy skies and pungent odors became a normalized, if unhealthy, part of city life.

The Clean Air Act and Beyond: Turning the Tide (1960s - Present)

The 1960s marked a turning point. The passage of the Clean Air Act in 1963, followed by subsequent amendments, set in motion a series of regulations aimed at curbing air pollution. This legislation proved instrumental in reducing emissions from both stationary sources (factories, power plants) and mobile sources (vehicles).

Catalytic Converters and Lead Reduction: Key Advancements

The introduction of catalytic converters in automobiles significantly reduced emissions of harmful pollutants like carbon monoxide and hydrocarbons. The phasing out of leaded gasoline was another landmark achievement, dramatically decreasing lead levels in the air, which had devastating impacts on public health, especially children.

Ongoing Challenges and Future Directions

Despite significant progress, NYC still faces air quality challenges. Construction activity, traffic congestion, and regional air pollution transport contribute to elevated levels of particulate matter and ozone. The city continually works to improve its air quality through programs focused on:

Vehicle emission standards: Stringent regulations on vehicle emissions and promoting the adoption

of electric vehicles.
Green initiatives: Expanding green spaces, investing in renewable energy, and promoting energy efficiency.
Construction site monitoring: Implementing and enforcing stricter regulations to minimize emissions from construction activities.
Public awareness campaigns: Educating residents about air quality and the health impacts of pollution.

Analyzing the Data: Trends and Insights

Tracking NYC's air quality history requires analyzing long-term data sets maintained by the Environmental Protection Agency (EPA) and other agencies. These data reveal fluctuating trends, demonstrating the impact of policy changes and economic shifts. Studying this data allows for a deeper understanding of the effectiveness of implemented strategies and areas needing further improvement.

Conclusion: Breathing Easier, But the Fight Continues

The history of NYC air quality is a testament to both the destructive potential of unchecked pollution and the transformative power of collective action. While considerable progress has been made, the journey towards consistently clean air is far from over. Ongoing vigilance, innovative solutions, and sustained commitment are crucial for ensuring a healthy and breathable future for all New Yorkers.

FAQs

1. What were the most significant pollutants in early NYC air? Coal smoke, industrial emissions (sulfur dioxide, particulate matter), and eventually automobile exhaust (carbon monoxide, hydrocarbons, lead).

2. How did the Clean Air Act impact NYC's air quality? The Clean Air Act and subsequent amendments provided the legal framework for significant reductions in various pollutants, setting emission standards for both stationary and mobile sources.

3. What are the biggest air quality challenges facing NYC today? Particulate matter from traffic and construction, ozone formation influenced by regional pollution, and the impact of climate change on air quality.

4. Where can I find current NYC air quality data? The New York State Department of Environmental

Conservation (NYSDEC) and the EPA provide real-time air quality data and information for the NYC metropolitan area.

5. What can individuals do to contribute to better NYC air quality? Support policies that promote clean energy and sustainable transportation, reduce personal vehicle use, and advocate for stricter emission standards.

nyc air quality history: The Inside Story , 1993

nyc air quality history: Smoke and Mirrors E. Melanie Dupuis, 2004-07 A history of the politics of air pollution.

nyc air quality history: Air Quality Guidelines World Health Organization, 2006 This book presents revised guideline values for the four most common air pollutants - particulate matter, ozone, nitrogen dioxide and sulfur dioxide - based on a recent review of the accumulated scientific evidence. The rationale for selection of each guideline value is supported by a synthesis of information emerging from research on the health effects of each pollutant. As a result, these guidelines now also apply globally. They can be read in conjunction with Air quality guidelines for Europe, 2nd edition, which is still the authority on guideline values for all other air pollutants. As well as revised guideline values, this book makes a brief yet comprehensive review of the issues affecting the application of the guidelines in risk assessment and policy development. Further, it summarizes information on: . pollution sources and levels in various parts of the world, . population exposure and characteristics affecting sensitivity to pollution, . methods for quantifying the health burden of air pollution, and . the use of guidelines in developing air quality standards and other policy tools. Finally, the special case of indoor air pollution is explored. Prepared by a large team of renowned international experts who considered conditions in various parts of the globe, these guidelines are applicable throughout the world. They provide reliable guidance for policy-makers everywhere when considering the various options for air quality management.

nyc air quality history: The Invisible Killer Gary Fuller, 2019-03-19 An urgent examination of one of the biggest global crises facing us today—the drastic worsening of air pollution—and what we can do about it The air pollution that we breathe every day is largely invisible—but it is killing us. How did it get this bad, and how can we stop it? Far from a modern-day problem, scientists were aware of the impact of air pollution as far back as the seventeenth century. Now, as more of us live in cities, we are closer than ever to pollution sources, and the detrimental impact on the environment and our health has reached crisis point. The Invisible Killer will introduce you to the incredible individuals whose groundbreaking research paved the way to today's understanding of air pollution, often at their own detriment. Gary Fuller's global story examines devastating incidents from London's Great Smog to Norway's acid rain; Los Angeles' traffic problem to wood-burning damage in New Zealand. Fuller argues that the only way to alter the future course of our planet and improve collective global health is for city and national governments to stop ignoring evidence and take action, persuading the public and making polluters bear the full cost of the harm that they do. The decisions that we make today will impact on our health for decades to come. The Invisible Killer is an essential book for our times and a cautionary tale we need to take heed of.

nyc air quality history: Air Quality in New York City After the September 11, 2001 Attacks United States. Congress. Senate. Committee on Environment and Public Works. Subcommittee on Clean Air, Wetlands, and Climate Change, 2003

nyc air quality history: Air Pollution and Global Warming Mark Z. Jacobson, 2012-04-23 New edition of introductory textbook, ideal for students taking a course on air pollution and global warming, whatever their background. Comprehensive introduction to the history and science of the major air pollution and climate problems facing the world today, as well as energy and policy solutions to those problems.

nyc air quality history: WHO Guidelines for Indoor Air Quality , 2010 This book presents

WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

nyc air quality history: The Nature of New York David Stradling, 2010 Stradling shows how New York's varied landscape and abundant natural resources have played a fundamental role in shaping the state's culture and economy.

nyc air quality history: London Fog Christine L. Corton, 2015-11-02 A New York Times Book Review Editors' Choice A Telegraph Editor's Choice An Evening Standard "Best Books about London" Selection In popular imagination, London is a city of fog. The classic London fogs, the thick yellow "pea-soupers," were born in the industrial age of the early nineteenth century. Christine L. Corton tells the story of these epic London fogs, their dangers and beauty, and their lasting effects on our culture and imagination. "Engrossing and magnificently researched…Corton's book combines meticulous social history with a wealth of eccentric detail. Thus we learn that London's ubiquitous plane trees were chosen for their shiny, fog-resistant foliage. And since Jack the Ripper actually went out to stalk his victims on fog-free nights, filmmakers had to fake the sort of dank, smoke-wreathed London scenes audiences craved. It's discoveries like these that make reading London Fog such an unusual, enthralling and enlightening experience." —Miranda Seymour, New York Times Book Review "Corton, clad in an overcoat, with a linklighter before her, takes us into the gloomier, long 19th century, where she revels in its Gothic grasp. Beautifully illustrated, London Fog delves fascinatingly into that swirling miasma." —Philip Hoare, New Statesman

nyc air quality history: The Chimney of the World Stephen Mosley, 2013-04-15 In this innovative contribution to the field of environmental history, Stephen Mosley explores the devastating human and environmental costs of smoke pollution in the world's first industrial city.

nyc air quality history: Lessons from the Clean Air Act Ann Carlson, Dallas Burtraw, 2019-05-09 Examines the successes and failures of the Clean Air Act in order to lay a foundation for future energy policy.

nyc air quality history: *Smogtown* Chip Jacobs, William J. Kelly, 2008-10-02 "A zany and provocative cultural history" of LA's infamous air pollution and the struggle to combat it from the 1940s to today (Kirkus). The smog beast wafted into downtown Los Angeles on July 26, 1943. Nobody knew what it was. Secretaries rubbed their eyes. Traffic cops seemed to disappear in the mysterious haze. Were Japanese saboteurs responsible? A reckless factory? The truth was much worse—it came from within, from Southern California's burgeoning car-addicted, suburban lifestyle. Smogtown is the story of pollution, progress, and how an optimistic people confronted the epic struggle against airborne poisons barraging their hometowns. There are scofflaws and dirty deals aplenty, plus murders, suicides, and an ever-present paranoia about mass disaster. California based journalists Chip Jacobs and William J. Kelly highlight the bold personalities involved, the corporate-tainted science, the terrifying health costs, the attempts at cleanup, and how the smog battle helped mold the modern-day culture of Los Angeles.

nyc air quality history: Handbook of Indoor Air Quality Yinping Zhang, Philip K. Hopke, Corinne Mandin, 2022-11-23 People live in indoor environment about 90% of lifetime and an adult inhales about 15 kg air each day, over 75% of the human body's daily mass intake (air, food, water). Therefore, indoor air quality (IAQ) is very important to human health. This book provides the basic knowledge of IAQ and highlights the research achievements in the past two decades. It covers the following 12 sections: introduction, indoor air chemicals, indoor air particles, measurement and evaluation, source/sink characteristics, indoor chemistry, human exposure to indoor pollutants,

health effects and health risk assessment, IAQ and cognitive performance, standards and guidelines, IAQ control, and air quality in various indoor environments. It provides a combination of an introduction to various aspects on IAQ studies, the current state-of-knowledge, various advances and the perspective of IAQ studies. It will be very helpful for the researchers and technicians in the IAQ and the related fields. It is also useful for experts in other fields and general readers who want to obtain a basic understanding of and research advances in the field of IAQ. A group of experts in IAQ research have been recruited to write the chapters. Their research interests and experience cover the scope of the book. In addition, some experienced experts in IAQ field have been invited as advisors or reviewers to give their comments, suggestions and revisions on the handbook framework and the chapter details. Their contribution guarantees the quality of the book. We are very grateful to them. Last but not least, we express our heartfelt thanks to Prof. Spengler, Harvard University, for writing the foreword of the current Handbook of Indoor Air Quality both as a pioneer scientist who contributed greatly to indoor air science and as an Editor-in-chief of Handbook of Indoor Air Quality 2001, 1st ed. New York: McGraw-Hill. In addition to hard copies, the book is also published online and will be updated by the authors as needed to keep it aligned with current knowledge. These salient features can make the handbook fresh with the research development.

nyc air quality history: *Struggling for Air* Richard L. Revesz, Jack Lienke, 2016 Since the beginning of the Obama Administration, conservative politicians have railed against the President's War on Coal. As evidence of this supposed siege, they point to a series of rules issued by the Environmental Protection Agency that aim to slash air pollution from the nation's power sector . Because coal produces far more pollution than any other major energy source, these rules are expected to further reduce its already shrinking share of the electricity market in favor of cleaner options like natural gas and solar power. But the EPA's policies are hardly the unprecedented regulatory assault that opponents make them out to be. Instead, they are merely the latest chapter in a multi-decade struggle to overcome a tragic flaw in our nation's most important environmental law. In 1970, Congress passed the Clean Air Act, which had the remarkably ambitious goal of eliminating essentially all air pollution that posed a threat to public health or welfare. But there was a problem: for some of the most common pollutants, Congress empowered the EPA to set emission limits only for newly constructed industrial facilities, most notably power plants. Existing plants, by contrast, would be largely exempt from direct federal regulation-a regulatory practice known as grandfathering. What lawmakers didn't anticipate was that imposing costly requirements on new plants while giving existing ones a pass would simply encourage those old plants to stay in business much longer than originally planned. Since 1970, the core problems of U.S. environmental policy have flowed inexorably from the smokestacks of these coal-fired clunkers, which continue to pollute at far higher rates than their younger peers. In Struggling for Air, Richard L. Revesz and Jack Lienke chronicle the political compromises that gave rise to grandfathering, its deadly consequences, and the repeated attempts-by presidential administrations of both parties-to make things right.

nyc air quality history: Fixing Broken Windows George L. Kelling, Catherine M. Coles, 1997 Cites successful examples of community-based policing.

nyc air quality history: Environmental ScienceBites Kylienne A. Clark, Travis R. Shaul, Brian H. Lower, 2015-09-15 This book was written by undergraduate students at The Ohio State University (OSU) who were enrolled in the class Introduction to Environmental Science. The chapters describe some of Earth's major environmental challenges and discuss ways that humans are using cutting-edge science and engineering to provide sustainable solutions to these problems. Topics are as diverse as the students, who represent virtually every department, school and college at OSU. The environmental issue that is described in each chapter is particularly important to the author, who hopes that their story will serve as inspiration to protect Earth for all life.

nyc air quality history: Communities in Action National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Committee on Community-Based Solutions to Promote Health Equity in the United States, 2017-04-27 In the United States, some populations suffer from far greater disparities in

health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

nyc air quality history: *The History, Use, Disposition and Environmental Fate of Agent Orange* Alvin Lee Young, 2009-04-21 For almost four decades, controversy has surrounded the tactical use of herbicides in Southeast Asia by the United States military. Few environmental or occupational health issues have received the sustained international attention that has been focused on Agent Orange, the major tactical herbicide deployed in Southern Vietnam. With the opening and establishment of normal relations between the United States and the Socialist Republic of Vietnam in 1995, the time has come for a thorough re-examination of the military use of Agent Orange and other tactical herbicides in Southern Vietnam, and the subsequent actions that have been taking place since their use in Vietnam. The United States Department of Defense has had the major role in all military operations involving the use of tactical herbicides, including that of Agent Orange. This included the Department's purchase, shipment and tactical use of herbicides in Vietnam, its role in the disposition of Agent Orange after Vietnam, its role in conducting long-term epidemiological investigations of the men of Operation RANCH HAND, and its sponsorship of ecological and environmental fate studies. This book was commissioned by The Office of the Deputy Under Secretary of Defense (Installations and Environment) with the intent of providing documentation of the knowledge on the history, use, disposition and environmental fate of Agent Orange and its associated dioxin.

nyc air quality history: *Air Pollution Modeling* P. Zannetti, 2013-06-29 Finishing this book is giving me a mixture of relief, satisfaction and frus tration. Relief, for the completion of a project that has taken too many of my evenings and weekends and that, in the last several months, has become almost an obsession. Satisfaction, for the optimistic feeling that this book, in spite of its many shortcomings and imbalances, will be of some help to the air pollution scientific community. Frustration, for the impossibility of incorporating newly available material that would require another major review of several key chap ters - an effort that is currently beyond my energies but not beyond my desires. The first canovaccio of this book came out in 1980 when I was invited by Computational Mechanics in the United Kingdom to give my first Air Pollution Modeling course. The course material, in the form of transparencies, expanded, year after year, thus providing a growing working basis. In 1985, the ECC Joint Research Center in Ispra, Italy, asked me to prepare a critical survey of mathe matical models of atmospheric pollution, transport and deposition. This support gave me the opportunity to prepare a sort of first draft of the book, which I expanded in the following years.

nyc air quality history: *Command Of The Air* General Giulio Douhet, 2014-08-15 In the pantheon of air power spokesmen, Giulio Douhet holds center stage. His writings, more often cited than perhaps actually read, appear as excerpts and aphorisms in the writings of numerous other air power spokesmen, advocates-and critics. Though a highly controversial figure, the very controversy that surrounds him offers to us a testimonial of the value and depth of his work, and the need for airmen today to become familiar with his thought. The progressive development of air power to the point where, today, it is more correct to refer to aerospace power has not outdated the notions of

Douhet in the slightest In fact, in many ways, the kinds of technological capabilities that we enjoy as a global air power provider attest to the breadth of his vision. Douhet, together with Hugh “Boom” Trenchard of Great Britain and William “Billy” Mitchell of the United States, is justly recognized as one of the three great spokesmen of the early air power era. This reprint is offered in the spirit of continuing the dialogue that Douhet himself so perceptively began with the first edition of this book, published in 1921. Readers may well find much that they disagree with in this book, but also much that is of enduring value. The vital necessity of Douhet’s central vision-that command of the air is all important in modern warfare-has been proven throughout the history of wars in this century, from the fighting over the Somme to the air war over Kuwait and Iraq.

nyc air quality history: Inventory of New York City Greenhouse Gas Emissions Jonathan Dickinson, 2007-09 This report is a comprehensive greenhouse gas inventory for both New York City as a whole & for City gov¿t. operations. While there is no substitute for fed. action, all levels of gov¿t. have a role to play in confronting climate change & its potential impacts, & this report will help N.Y. begin doing that more aggressively. Mayor Bloomberg created the Mayor¿s Office of Long-term Planning & Sustainability & charged it with developing a comprehensive sustainability plan for the City¿s future. The result is PlaNYC, which has set a goal of reducing missions by 30% below 2005 levels by 2030, an ambitious but achievable goal. This greenhouse gas inventory is a critical first step in reducing N.Y.¿s contribution to global carbon dioxide levels. Illustrations.

nyc air quality history: An Interactive History of the Clean Air Act Jonathan Davidson, Joseph M Norbeck, 2011-12-05 The Clean Air Act of 1970 set out for the United States a basic, yet ambitious, objective to reduce pollution to levels that protect health and welfare. The Act set out state and federal regulations to limit emissions and the Environmental Protection Agency was established to help enforce the regulations. The Act has since had several amendments, notably in 1977 and 1990, and has successfully helped to increase air quality. This book reviews the history of the Clean Air Act of 1970 including the political, business, and scientific elements that went into establishing the Act, emphasizing the importance that scientific evidence played in shaping policy. The analysis then extends to examine the effects of the Act over the past forty years including the Environmental Protection Agency's evolving role and the role of states and industry in shaping and implementing policy. Finally, the book offers best practices to guide allocation of respective government and industry roles to guide sustainable development. The history and analysis of the Clean Air Act presented in this book illustrates the centrality of scientific analysis and technological capacity in driving environmental policy development. It would be useful for policy makers, environmental scientists, and anyone interested in gaining a clearer understand of the interaction of science and policy. Offers an overview of the 1970 Clean Air Act and its subsequent effects Highlights the relationship between policy and scientific discovery Extracts lessons from the United States to apply to other policy and national contexts

nyc air quality history: Losing Earth Nathaniel Rich, 2020-03-05 By 1979, we knew all that we know now about the science of climate change - what was happening, why it was happening, and how to stop it. Over the next ten years, we had the very real opportunity to stop it. Obviously, we failed.Nathaniel Rich's groundbreaking account of that failure - and how tantalizingly close we came to signing binding treaties that would have saved us all before the fossil fuels industry and politicians committed to anti-scientific denialism - is already a journalistic blockbuster, a full issue of the New York Times Magazine that has earned favorable comparisons to Rachel Carson's Silent Spring and John Hersey's Hiroshima. Rich has become an instant, in-demand expert and speaker. A major movie deal is already in place. It is the story, perhaps, that can shift the conversation.In the book Losing Earth, Rich is able to provide more of the context for what did - and didn't - happen in the 1980s and, more important, is able to carry the story fully into the present day and wrestle with what those past failures mean for us in 2019. It is not just an agonizing revelation of historical missed opportunities, but a clear-eyed and eloquent assessment of how we got to now, and what we can and must do before it's truly too late.

nyc air quality history: Air Quality Wayne T. Davis, Joshua S. Fu, 2021-02-24 The sixth edition

of a bestseller, Air Quality provides students with a comprehensive overview of air quality, the science that continues to provide a better understanding of atmospheric chemistry and its effects on public health and the environment, and the regulatory and technological management practices employed in achieving air quality goals. Maintaining the practical approach that has made previous editions popular, the chapters have been reorganized, new material has been added, less relevant material has been deleted, and new images have been added, particularly those from Earth satellites. New in the Sixth Edition New graphics, images, and an appended list of unit conversions New problems and questions Presents all-new information on the state of air quality monitoring Provides the latest updates on air quality legislation in the United States Updates the effects of air pollution and CO2 on climate change Examines the effects of the latest changes in energy production and the related emissions and pollutants Offers broadened coverage of air pollutant emissions and air quality in a global context This new edition elucidates the challenges we face in our efforts to protect and enhance the quality of the nation's air. It also highlights the growing global awareness of air quality issues, climate change, and public health concerns in the developing world. The breadth of coverage, review questions at the end of each chapter, extensive glossary, and list of readings place the tools for understanding into your students' hands.

nyc air quality history: *Silent Spring* Rachel Carson, 2002 The essential, cornerstone book of modern environmentalism is now offered in a handsome 40th anniversary edition which features a new Introduction by activist Terry Tempest Williams and a new Afterword by Carson biographer Linda Lear.

nyc air quality history: Air Quality, Fifth Edition Thad Godish, Wayne T. Davis, Joshua S. Fu, 2014-08-15 The fifth edition of a bestseller, Air Quality provides students with a comprehensive overview of air quality, the science that continues to provide a better understanding of atmospheric chemistry and its effects on public health and the environment, and the regulatory and technological management practices employed in achieving air quality goals. Maintaining the practical approach that has made previous editions so popular, the chapters have been reorganized, new material has been added, less relevant material deleted, and new images added, particularly those from Earth satellites. See What's New in the Fifth Edition: New graphics, images, and an appended list of unit conversions New problems and questions Revisions and updates on the regulatory aspects related to air quality, emissions of pollutants, and particularly in the area of greenhouse gas emissions Updated information on topics that affect air quality such as global warming, climate change, international issues associated with air quality and its regulation, atmospheric deposition, atmospheric chemistry, and health and environmental effects of atmospheric pollution Written in Thad Godish's accessible style, the book clearly elucidates the challenges we face in our fifth decade of significant regulatory efforts to protect and enhance the quality of the nation's air. It also highlights the growing global awareness of air quality issues, climate change, and public health concerns in the developing world. The breadth of coverage, review questions at the end of each chapter, extensive glossary, and list of readings put the tools for understanding in your students' hands.

nyc air quality history: Earth Frank H. T. Rhodes, 2012-06-15 It's impossible to grasp the whole planet or integrate all the descriptions of it. But because we live here, we have to try. This is not just an artistic compulsion or an existential yearning, still less an academic exercise. It's a survival issue. This is the only planet we have. We're stuck here, and we don't own the place—it would be the height of arrogance to assume that we do. We're tenants here, not owners, but we're tenants with hope for a long-term tenancy. We want to extend our lease just as far as we can.—from Earth: A Tenant's Manual In Earth: A Tenant's Manual, the distinguished geologist Frank H. T. Rhodes, President Emeritus of Cornell University, provides a sweeping, accessible, and deeply informed guide to the home we all share, showing us how we might best preserve the Earth's livability for ourselves and future generations. Rhodes begins by setting the scene for our active planet and explaining how its location and composition determine how the Earth works and why it teems with life. He emphasizes the changes that are of concern to us today, from earthquakes to

climate change and the clashes over the energy resources needed for the Earth's exploding population. He concludes with an extended exploration of humanity's prospects on a complex, protean, and ultimately finite world. It is not a question of whether the planet is sustainable; the challenge facing life on Earth—and the life of the Earth—is whether an expanding and high-consumption species like ours is sustainable. Only new resources, new priorities, new policies and, most of all, new knowledge, can reverse the damage that humanity is doing to our home—and ourselves. A sustainable human future, Rhodes concludes in this eloquent, sobering, but ultimately optimistic book, will require a sense of responsible stewardship, for we are not owners of this planet; we are tenants. Surveying the systems, large and small, that govern Earth's processes and influence its changes, Rhodes addresses the negative consequences of human activities for the health of its regulatory systems but offers practical suggestions as to how we might effect repairs, or at least limit further damage to our home.

nyc air quality history: The History of Love: A Novel Nicole Krauss, 2006-05-17 ONE OF THE MOST LOVED NOVELS OF THE DECADE. A long-lost book reappears, mysteriously connecting an old man searching for his son and a girl seeking a cure for her widowed mother's loneliness. Leo Gursky taps his radiator each evening to let his upstairs neighbor know he’s still alive. But it wasn’t always like this: in the Polish village of his youth, he fell in love and wrote a book…Sixty years later and half a world away, fourteen-year-old Alma, who was named after a character in that book, undertakes an adventure to find her namesake and save her family. With virtuosic skill and soaring imaginative power, Nicole Krauss gradually draws these stories together toward a climax of extraordinary depth and beauty (Newsday).

nyc air quality history: Urban Sprawl and Public Health Howard Frumkin, Lawrence Frank, Richard J. Jackson, 2004-07-09 'Urban Sprawl and Public Health' offers a survey of the impact that the built environment can have on the health of the people who inhabit our cities. The authors go on to suggest ways in which the design of cities could be improved & have a positive impact on the well-being of their citizens.

nyc air quality history: Historical Dictionary of Environmentalism Peter Dauvergne, 2016-09-09 To capture the diversity within environmentalism, this dictionary takes a global tack with a focus on ideas, events, institutions, initiatives, and green movements since the 1960s. It strives to avoid a common error in many histories of environmentalism: to exaggerate the input of the wealthy countries of Europe and North America and understate the influence of Africa, Asia, South and Central America, and the Polar Regions. It aims as well for a more comprehensive analysis than most histories of the modern environmental movement, understanding environmentalism as emerging not only from grassroots and formal nongovernmental associations, but also from corporate, governmental, and intergovernmental organizations and initiatives. This assumes the ideas and energy infusing environmentalism with political purpose arise from hundreds of thousands of sources: from corporate boardrooms to bureaucratic policies to international negotiations to activists. Thus, environmentalists are not only indigenous people blocking a logging road, Greenpeace activists protesting a seal hunt, or green candidates contesting an election; an equal or larger number of environmentalists are working within the Japanese bureaucracy to implement environmental policies, within the World Bank to assess the environmental impacts of loans, within Wal-Mart to green its purchasing practices, or within intergovernmental forums to negotiate international environmental agreements. This second edition of Historical Dictionary of Environmentalism contains a chronology, an introduction, and an extensive bibliography. The dictionary section has over 300 cross-referenced entries on important events, issues, organizations, ideas, and people shaping the direction of environmentalism worldwide. This book is an excellent access point for students, researchers, and anyone wanting to know more about environmentalism.

nyc air quality history: *In Search of Good Energy Policy* Marc Ozawa, Jonathan Chaplin, Michael Pollitt, David Reiner, Paul Warde, 2019-06-20 Offers an innovative look at why science and technology cannot alone meet the needs of energy policy making in the future.

nyc air quality history: Air Quality in Cities Nicolas Moussiopoulos, 2013-11-11 Urban areas

are major sources of air pollution. Pollutant emissions affecting air quality in cities are considered to have adverse consequences for human health. Public and government concern about environmental issues arising from urban air pollution has increased over the last decades. The urban air pollution problem is widespread throughout the world and it is important to find ways of eliminating or at least reducing the risks for human health. The fundamentals of the physical and chemical processes occurring during air pollutant transport in the atmosphere are nowadays understood to a large extent. In particular, modelling of such processes has experienced a remarkable growth in the last decades. Monitoring capabilities have also improved markedly in the most urban areas around the world. However, neither modelling nor monitoring can solve urban air pollution problems, as they are only a first step in improving useful information for future regulations. The defining of efficient control strategies can not be achieved without a clear knowledge of the complete pollution process, i.e. emission, atmospheric transport and transformation, and deposition at the receptor. Improving our ability to establish valid urban scale source-receptor relation ships has been the objective of SA TURN, one of the 14 subprojects of EURO TRAC-2. Similar to the other subprojects of this co-ordinated environmental pro ject within the EUREKA initiative, SA TURN brought together international groups of scientists to work on problems directly related to atmospheric chemistry and physics. The present volume summarises the scientific results of SATURN.

nyc air quality history: The Basic Environmental History Mauro Agnoletti, Simone Neri Serneri, 2014-10-15 This book is an introductory instrument to the main themes of environmental history, illustrating its development over time, methodological implications, results achieved and those still under discussion. But the overriding aspiration is to show that the doubts, methods and knowledge elaborated by environmental history have a heuristic value that is far from negligible precisely in its attitude to the most consolidated major historiography. For this reason, this book gives an overview of environmental history as it is an essential component of the basic knowledge of global history. At the same time, it introduces specific aspects which are useful both for anyone wanting to deepen his/her studies of environmental historiography and for those interested in one of the many disciplinary areas – from rural history to urban history, from the history of technology to the history of public health, etc. with which environmental history develops a dialogue.

nyc air quality history: Air Pollution Calculations Daniel A. Vallero, 2023-09-17 Air Pollution Calculations: Quantifying Pollutant Formation, Transport, Transformation, Fate and Risks, Second Edition enhances the systems science aspects of air pollution, including transformation reactions in soil, water, sediment and biota that contribute to air pollution. This second edition will be an update based on research and actions taken since 2019 that affect air pollution calculations, including new control technologies, emissions measurement, and air quality modeling. Recent court cases, regulatory decisions, and advances in technology are discussed and, where necessary, calculations have been revised to reflect these updates. Sections discuss pollutant characterization, pollutant transformation, and environmental partitioning. Air partitioning, physical transport of air pollutants, air pollution biogeochemistry, and thermal reactions are also thoroughly explored. The author then carefully examines air pollution risk calculations, control technologies and dispersion models. The text wraps with discussions of economics and project management, reliability and failure, and air pollution decision-making. - Provides real-life current cases as examples of quantitation of emerging air pollution problems - Includes straightforward derivation of equations, giving practitioners and instructors a direct link between first principles of science and applications of technologies - Presents example calculations that make scientific theory real for the student and practitioner

nyc air quality history: People and Nature in Historical Perspective J¢zsef Laszlovszky, P,ter Szab¢, 2003-01-01 Knochenartefakte - Beinartefakte - Bein.

nyc air quality history: A Companion to Global Environmental History J. R. McNeill, Erin Stewart Mauldin, 2012-08-22 The Companion to Global Environmental History offers multiple points of entry into the history and historiography of this dynamic and fast-growing field, to provide an essential road map to past developments, current controversies, and future developments for specialists and newcomers alike. Combines temporal, geographic, thematic and contextual

approaches from prehistory to the present day Explores environmental thought and action around the world, to give readers a cultural, intellectual and political context for engagement with the environment in modern times Brings together environmental historians from around the world, including scholars from South Africa, Brazil, Germany, and China

nyc air quality history: Fundamentals of Air Pollution Richard W. Boubel, Daniel Vallero, Donald L. Fox, Bruce Turner, Arthur C. Stern, 2013-10-22 This new edition of the premier air pollution textbook is completely updated and revised to include all components of the 1990 Clean Air Act Amendments. Fundamentals of Air Pollution, Third Edition covers the spectrum of topics pertinent to the study of air pollution: elements, sources, effects, measurement, monitoring, meteorology, and regulatory and engineering control. In addition, the textbook features new chapters on atmospheric emissions from hazardous waste sites, air pathways from hazardous waste sites, and the long-term effects of air pollution on the earth. It also presents updated information on acidic development, long-distance transport, atmospheric chemistry, and mathematical modeling. With extensive references, suggested reading lists, questions, and new figures and tables, this text will serve as an invaluable resource for students and practitioners alike. * This new edition features coverage of: Regulatory requirements of the Clean Air Act Amendments of 1990 New developments in the modelling of air quality Air pollution control Air pollution engineering/atmospheric chemistry

nyc air quality history: Toms River Dan Fagin, 2013-03-19 WINNER OF THE PULITZER PRIZE • Winner of The New York Public Library's Helen Bernstein Book Award • "A new classic of science reporting."—The New York Times The riveting true story of a small town ravaged by industrial pollution, Toms River melds hard-hitting investigative reporting, a fascinating scientific detective story, and an unforgettable cast of characters into a sweeping narrative in the tradition of A Civil Action, The Emperor of All Maladies, and The Immortal Life of Henrietta Lacks. One of New Jersey's seemingly innumerable quiet seaside towns, Toms River became the unlikely setting for a decades-long drama that culminated in 2001 with one of the largest legal settlements in the annals of toxic dumping. A town that would rather have been known for its Little League World Series champions ended up making history for an entirely different reason: a notorious cluster of childhood cancers scientifically linked to local air and water pollution. For years, large chemical companies had been using Toms River as their private dumping ground, burying tens of thousands of leaky drums in open pits and discharging billions of gallons of acid-laced wastewater into the town's namesake river. In an astonishing feat of investigative reporting, prize-winning journalist Dan Fagin recounts the sixty-year saga of rampant pollution and inadequate oversight that made Toms River a cautionary example for fast-growing industrial towns from South Jersey to South China. He tells the stories of the pioneering scientists and physicians who first identified pollutants as a cause of cancer, and brings to life the everyday heroes in Toms River who struggled for justice: a young boy whose cherubic smile belied the fast-growing tumors that had decimated his body from birth; a nurse who fought to bring the alarming incidence of childhood cancers to the attention of authorities who didn't want to listen; and a mother whose love for her stricken child transformed her into a tenacious advocate for change. A gripping human drama rooted in a centuries-old scientific quest, Toms River is a tale of dumpers at midnight and deceptions in broad daylight, of corporate avarice and government neglect, and of a few brave individuals who refused to keep silent until the truth was exposed. NAMED ONE OF THE BEST BOOKS OF THE YEAR BY NPR AND KIRKUS REVIEWS "A thrilling journey full of twists and turns, Toms River is essential reading for our times. Dan Fagin handles topics of great complexity with the dexterity of a scholar, the honesty of a journalist, and the dramatic skill of a novelist."—Siddhartha Mukherjee, M.D., author of the Pulitzer Prize–winning The Emperor of All Maladies "A complex tale of powerful industry, local politics, water rights, epidemiology, public health and cancer in a gripping, page-turning environmental thriller."—NPR "Unstoppable reading."—The Philadelphia Inquirer "Meticulously researched and compellingly recounted . . . It's every bit as important—and as well-written—as A Civil Action and The Immortal Life of Henrietta Lacks."—The Star-Ledger "Fascinating . . . a gripping environmental thriller."—Kirkus Reviews (starred review) "An honest, thoroughly researched, intelligently written

book.”—Slate “[A] hard-hitting account . . . a triumph.”—Nature “Absorbing and thoughtful.”—USA Today

nyc air quality history: Greater Gotham Mike Wallace, 2017 Volume two of the world famous trilogy on the history of New York

nyc air quality history: *Terra* Michael Novacek, 2008-11-11 A paleontologist awakens us to the extinction event that human activity is bringing about today The natural world as humans have always known it evolved close to 100 million years ago, with the appearance of flowering plants and pollinating insects during the age of the dinosaurs. Its tremendous history is now in danger of profound, catastrophic disruption. In Terra, a brilliant synthesis of evolutionary biology, paleontology, and modern environmental science, Michael Novacek shows how all three can help us understand and prevent what he (and others) call today's mass extinction event. Humanity's use of land, our consumption, the pollution we create, and our contributions to global warming are causing this crisis. True, the fossil record of hundreds of millions of years reveals that wild and bounteous nature has always evolved not quietly but thunderously, as species arise, flourish, die off, and are replaced by new species. We learn from paleontology and archaeology that for 50,000 years, human hunting, mining, and agriculture have changed many localities, sometimes irrevocably. But today, Novacek insists, our behavior endangers the entire global ecosystem. And if we disregard—through ignorance, antipathy, or apathy—the theory of evolution that developed with our modern understanding of the Earth's past, we not only impede enlightenment but threaten any practical strategy for our own survival. The evolutionary future of the entire living planet depends on our understanding this.

Welcome to NYC.gov | City of New York
NYC Just Got Easier With MyCity Explore, access, and manage child care, career, and business services.

Home · NYC311
nyc.gov home 311 Website feedback Services Contact NYC government Accessibility resources Events Register to vote Privacy Policy Your government Emergency alerts Terms of Use …

Events | City of New York - NYC.gov
The Official Website of the City of New York Home NYC Resources NYC311 Office of the Mayor Events Connect Jobs

NYC Resources | Categories | City of New York
The Official Website of the City of New York Home NYC Resources NYC311 Office of the Mayor Events Connect Jobs

NYC Finance - New York City
Welcome to the NYC Department of Finance's Property Tax Public Access web portal, your resource for information about New York City property taxes. In Public Access, you can: Look …

2025-2026 School Year Calendar
Jun 26, 2023 · Key dates and printable documents of the NYC Department of Education school year 2025-26 calendar.

NYC Government Jobs | Explore Careers | City of New York
Search careers at 80+ NYC agencies, see upcoming recruitment events, and learn about civil service exams.

NYC Resources | Agencies | City of New York

Mayor's Fund to Advance NYC (Mayor's Fund) Mayor's Office (OM) Mayor's Office Of Management and Budget, Office of (OMB) Mayor's Office for Economic Opportunity Mayor's …

NYC Department of Finance
Welcome! The Department of Finance collects the revenues that make every city service possible.

All Events | City of New York - NYC.gov
Visiting NYC? Find events, attractions, deals, and more at nycgo.com Skip Main Navigation Menu The Official Website of the City of New York

Welcome to NYC.gov | City of New York
NYC Just Got Easier With MyCity Explore, access, and manage child care, career, and business services.

Home · NYC311
nyc.gov home 311 Website feedback Services Contact NYC government Accessibility resources Events Register to vote Privacy Policy Your government Emergency alerts Terms of Use …

Events | City of New York - NYC.gov
The Official Website of the City of New York Home NYC Resources NYC311 Office of the Mayor Events Connect Jobs

NYC Resources | Categories | City of New York
The Official Website of the City of New York Home NYC Resources NYC311 Office of the Mayor Events Connect Jobs

NYC Finance - New York City
Welcome to the NYC Department of Finance's Property Tax Public Access web portal, your resource for information about New York City property taxes. In Public Access, you can: Look …

2025-2026 School Year Calendar
Jun 26, 2023 · Key dates and printable documents of the NYC Department of Education school year 2025-26 calendar.

NYC Government Jobs | Explore Careers | City of New York
Search careers at 80+ NYC agencies, see upcoming recruitment events, and learn about civil service exams.

NYC Resources | Agencies | City of New York
Mayor's Fund to Advance NYC (Mayor's Fund) Mayor's Office (OM) Mayor's Office Of Management and Budget, Office of (OMB) Mayor's Office for Economic Opportunity Mayor's …

NYC Department of Finance
Welcome! The Department of Finance collects the revenues that make every city service possible.

All Events | City of New York - NYC.gov
Visiting NYC? Find events, attractions, deals, and more at nycgo.com Skip Main Navigation Menu The Official Website of the City of New York

Back to Home