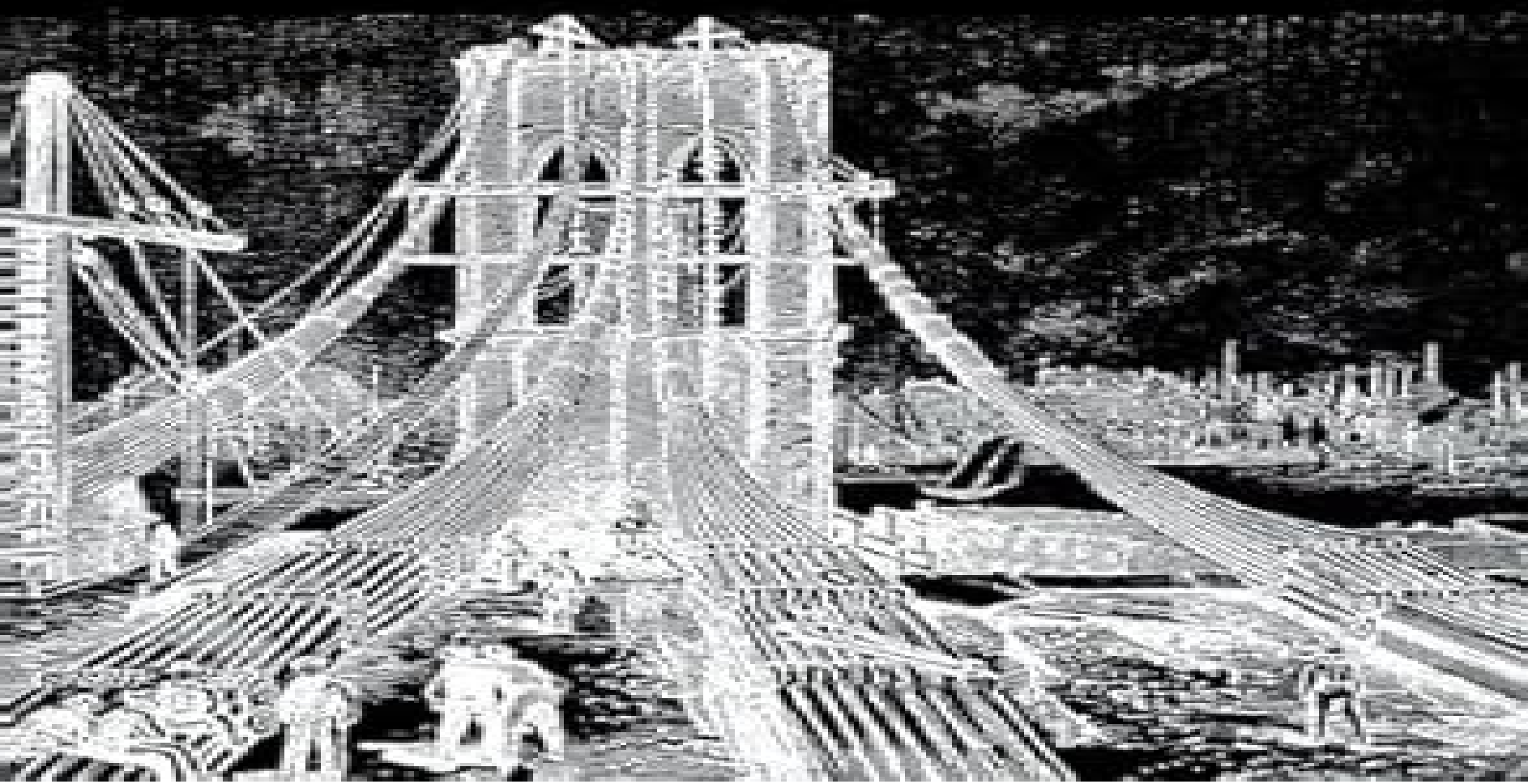


Engineering in American Society

1850-1875

RAYMOND H. MERRITT



Engineering In American Society 1850 1875

Jon Scott Logel



Engineering In American Society 1850 1875:

Engineering in American society, 1850-1875 Raymond H. Merritt, 1969 **Engineering in American Society** Raymond H. Merritt, 2021-11-21 Technology which has significantly changed Western man's way of life over the past century exerted a powerful influence on American society during the third quarter of the nineteenth century. In this study Raymond H. Merritt focuses on the engineering profession in order to describe not only the vital role that engineers played in producing a technological society but also to note the changes they helped to bring about in American education, industry, professional status, world perspectives, urban existence, and cultural values. During the development period of 1850-1875, engineers erected bridges, blasted tunnels, designed machines, improved rivers and harbors, developed utilities necessary for urban life, and helped to bind the continent together through new systems of transportation and communication. As a concomitant to this technological development, states Merritt, they introduced a new set of cultural values that were at once urban and cosmopolitan. These cultural values tended to reflect the engineers' experience of mobility so much a part of their lives and their commitment to efficiency, standardization, improved living conditions, and a less burdensome life. Merritt concludes from his study that the rapid growth of the engineering profession was aided greatly by the introduction of new teaching methods which emphasized and encouraged the solution of immediate problems. Schools devoted exclusively to the education and training of engineers flourished; schools such as Rensselaer Polytechnic Institute and Stevens Institute of Technology. Moreover, business corporations and governments sought the services of the engineers to meet the new technological demands of the day. In response, they devised methods and materials that went beyond traditional techniques. Their specialized experiences in planning, constructing, and supervising the early operation of these facilities brought them into positions of authority in the new business concerns since they often were the only qualified men available for the executive positions of authority for the executive positions of America's earliest large corporations. These positions of authority further extended their influence in American society. Engineers took a positive view of administration, developed systems of cost accounting, worked out job descriptions, defined levels of responsibility, and played a major role in industrial consolidation. Despite their close association with secular materialism, Merritt notes that many engineers expressed the hope that human peace and happiness would result from technical innovation and that they themselves could devote their technological knowledge, executive experience, and newly acquired status to solve some of the critical problems of communal life. Having begun merely as had become the planners and in many cases municipal enterprises which they hoped would turn a land of farms and cities into a social eden. *The Launching of Modern American Science, 1846-1876* Robert V. Bruce, 2022-05-01 Winner of the 1988 Pulitzer Prize in History. For readers born since the 1930s who have grown up assuming the United States leads the world in science, *The Launching of Modern American Science, 1846-1876* will come as something of a shock. It shows that little over a century ago the American scientific community was small, mediocre, and unpromising. Mr. Bruce has

performed an invaluable service in retrieving from numerous archives the letters and diaries of mid 19th century American scientists in which both the well known ones and the obscure describe their assimilation of the scientific ethos their discovery of the fascination of lab work their contempt for charlatanism their dreams for the future of American science he has done extensive archival research as well as detailed analyses of scientists and technologists listed in the Dictionary of American Biography he has provided a wealth of information on the people and institutions of mid 19th century American science The New York Times A superb study of the dawn of science and technology in the United States Bruce s premier focus in this and earlier books is mid to late 19th century America and one feels in the presence of a master who creates a reality of time and place that is breathtaking Bruce meticulously documents the text with names numbers dates and places with vignettes and personality sketches noting that it was the American style of science to develop technique to observe describe and catalogue rather than theorize A scholarly gem Kirkus If I had to recommend only one book on the critical period of development of nineteenth century science in America it would be this one Bruce s book a social history of science and the scientific community is about launching the American ship of science on its course to professionalization modernity and international competitiveness His goal is to tell how American scientists and engineers established new national patterns and organizations in science and technology still prevalent today For a most critical period in the history of science in America Bruce has produced a thorough and well written historical demography of scientists their institutions societies journals jobs colleges schools laboratories museums lectures agencies expeditions surveys and public relations Journal of the History of Medicine and Allied Sciences Drawing upon an enormous number of primary sources and scores of secondary works Bruce has produced a truly important book His incisive analyses his exemplary style of writing and his graceful touches of humor make it a fascinating one a splendid book which fills a gap in our knowledge of the history of science in the United States and deserves the attention of everyone who desires to know when and how modern science fledged in America Science A book not just to be looked through but looked at Bruce displays a remarkable grasp of its sources primary and secondary in manuscript and print statistical studies of his own and others and it will be the well informed historian indeed who fails to make discoveries here Bruce writes a proprietary prose that is both eloquent and playful A magisterial study of the development of science under the peculiar constraints of democratic culture The Launching belongs with the half dozen or so classics that have appeared since the history of American science came out of drydock four decades ago Isis A n exceptionally fine and eminently readable piece of historical scholarship The book is a major contribution the scientific community in nineteenth century America Bulletin of the History of Medicine This will be the definitive account for a long time indeed American Scientist I t is difficult to say too much good about The Launching of Modern American Science which is a major interpretation of the period a book so altogether excellent it gives a view of that period that is both convincing and illuminating As a very welcome extra it is so well written that it is a joy to read History of Education Quarterly A n ample

thoughtful scholarly and well written survey The New England Quarterly A rich and well documented account This is a readable book that should find a broad audience The British Journal for the History of Science *Chemistry in America 1876-1976* A. Thackray, J.L. Sturchio, P.T. Carroll, R.F. Bud, 2012-12-06 This study is an outgrowth of our interest in the history of modern chemistry The paucity of reliable quantitative knowledge about past science was brought home forcibly to us when we undertook a research seminar in the comparative history of modern chemistry in Britain Germany and the United States That seminar which took place at the University of Pennsylvania in the spring of 1975 was paralleled by one devoted to the work of the Annales School The two seminars together catalyzed the attempt to construct historical measures of change in aspects of one science or chemical indicators The present volume displays our results Perhaps our labors may be most usefully compared with the work of those students of medieval science who devote their best efforts to the establishment of texts Only when acceptable texts have been constructed from fragmentary and corrupt sources can scholars move on to the more satisfying business of making history So too in the modern period a necessary preliminary to the full history of any scientific profession is the establishing of reliable quantitative information in the form of statistical series This volume does not offer history Instead it provides certain element indicators that may be useful to individuals interested in the history of American chemistry and chemical industry and suggestive for policy Engineering in Society National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on the Education and Utilization of the Engineer, Panel on Engineering Interactions With Society, 1985-02-01 The National Research Council's Panel on Engineering Interactions with Society was formed to examine the functioning of the engineering profession in the context of and in relation to American society This document presents the findings of the panel The panel's inquiry was twofold First it examined the impact that engineering and technology development has had on the nation including the impact on societal demands values and perceptions on engineering Next the panel attempted to assess the structure and development of the engineering profession and the adaptability of the profession in meeting current and future national needs Chapters in the document deal with 1 the evolution of American engineering 2 the present era managing change in the information age 3 engineering and social dynamics 4 maintaining flexibility in an age of stress and rapid change and 5 conclusions and recommendations Appendices include 23 references and a 16 item bibliography along with an article prepared by Arthur L. Donovan entitled Engineering in an Increasingly Complex Society Historical Perspectives on Education Practice and Adaptation in American Engineering TW **Battling the Inland Sea** Robert Kelley, 2023-11-15 In its natural condition the Sacramento Valley was a flood ravaged region where an inland sea a hundred miles long regularly formed during the rainy season to drain slowly away by the summer months Today the Valley is marvelously productive with a great capital city at its center but only after a seventy year struggle to devise and build an intricate thousand miles of levees and drains Robert Kelley sets that battle within the encompassing national political culture which produced through

the Republican and Democratic parties widely diverging ideas about how best to reclaim the Valley from flood He draws on approaches developed in the field of policy analysis to examine the relationship between American political culture and environmental policy making We find that the prolonged controversy over the Sacramento Valley illuminates American decision making then and now In its natural condition the Sacramento Valley was a flood ravaged region where an inland sea a hundred miles long regularly formed during the rainy season to drain slowly away by the summer months Today the Valley is marvelously productive with a great

Military History Readings Pamphlet ,1987 *The Weaponsmakers* Jeffrey Schevitz,1979-01-01 This study lets weapons designers producers and testers speak for themselves They speak about their work during the Vietnam War and about those who criticized them for doing that work In doing so the book increases our understanding of professionals and professionalism by examining the social political and cultural factors that shape career choices and affect attitudes toward jobs and toward employing organizations It creates a typology of the high level engineers and scientists in the industry within an analysis of the overall structure of that industry Persons involved in or opposed to weapons production as well as involved in or opposed to other controversial work will value the difficult to find information presented in this book on the effects of the war on weapons industry personnel The practical conclusions drawn by the author are for government but also for universities research organizations corporations and for those opposed to the whole industry

Engineers and Irrigation United States. Board of Commissioners on the Irrigation of the San Joaquin, Tulare, and Sacramento Valleys of the State of California,1990 *Between Harvard and America: The Educational Leadership of Charles W. Eliot* Hugh Hawkins,2021-05-17 Charles William Eliot President of Harvard from 1869 until 1909 was unquestionably the most influential leader of American higher education during the last one hundred years Both born and married into Boston high society he brought wisdom administrative skill tough minded vision and above all patience to his leadership of the nation s oldest and most prestigious college In his 40 years as president Eliot transformed that college into America s leading university becoming at the same time a prototype of the modern university executive Charles Eliot was a man of affairs as well as judgment a spokesman for American culture as well as higher education and a consummate blend of conservatism and innovation in an age when each was highly valued Hugh Hawkins has written a book to match the man Neither biography nor institutional history this unconventional account traces the interaction between Eliot and Harvard on the one hand and American society on the other In the process we encounter virtually every social question impinging upon education with which we are still dealing Eliot had to resolve issues involving federal aid to higher education the mixture of required and elective studies in both undergraduate and professional schooling the relationship between teaching research and institutional health and prestige the political activities of faculty and students and the proper role of faculty administration and laymen in governing universities Hawkins explores these questions in great depth and with a sure grasp of what their answers mean in the everyday lives of faculty and students Calling upon a wealth of original research and

previous scholarship he outlines pressures problems and temptations which have a very contemporary ring Mark Beach *The Journal of Higher Education* Hugh Hawkins has written a lucid stimulating account of the most crucial turning point in the history of American higher education Hawkins scholarship is resourceful and meticulous He writes with great clarity attentiveness and control His thoroughness and cool intelligence produce solid monographic history at its very best an important contribution to the social history of the age Laurence Veysey *The Journal of American History* A thorough well balanced appraisal of Eliot and of his relationship to Harvard and to American society Mr Hawkins has admirably combined historical analysis and narrative biography with mutually beneficial consequences John H Fischer *Teachers College Columbia University* A fascinating and thought provoking assessment of Eliot and the university milieu in which he operated the book is a delight to read The text does have a crisp quality and it resonates from the author's obviously diligent researches Hawkins has pieced together a first rate portrait of a formidable man bringing great talents to bear on the many faceted problem of improving education in the United States Daniel Leab *The New England Quarterly* This is a first rate study informed thoughtful and well written George W Pierson *The American Historical Review* Hawkins argues that Eliot's liberalism became a force in Harvard's transformation freeing faculty and students for a new kind of university life Hawkins has formulated a major thesis important for understanding both Eliot and the transformation of education in the second half of the nineteenth century He also has written a committed relevant book the significance of Harvard in the academic revolution emerges more vividly than ever In two superb chapters *From College to University* and *The System of Liberty* Hawkins describes a process of historical change far beyond anything Eliot himself might have comprehended fully Hawkins triumphs over the static snapshot effect of a structural analysis He presents a dynamic story of a growing university with its leader its evolving bureaucratic arrangements its new departments and schools its changing methods of teaching and research its committee system and administration its invention of pensions and sabbaticals David F Allmendinger *History of Education Quarterly* Eliot brought Harvard and with it the nation's colleges into the modern world he infused his college with the spirit of free inquiry and gained for higher education a position where it could maintain its precarious independence from the giant centers of powers in the nation's economy and politics Hawkins book makes it abundantly clear at what price and with what means Eliot's and Harvard's victories were gained It shows that in the modern world there cannot be even in academia a sanctuary free of managers and administrators that the function of higher education's trustees is precisely that rationalizing and merging of interests which will allow the institutions of learning to survive in a world whose clocks do not run on academic time Hugh Hawkins's book is one of the finest and most judicious studies of the conditions under which modern academic man established his existence in America Jurgen Herbst *Reviews in American History* A most authoritative study of Charles W Eliot a remarkable document of social history of the American people at a particularly momentous era of their maturation quite a compelling book D J Johnston *British Journal of Educational Studies* A carefully researched scholarly study

I recommend this responsible and interesting account of that giant among men Charles William Eliot his work at Harvard and his relation to America Earl V Pullias The Phi Delta Kappan **Canals For A Nation** Ronald E. Shaw,2014-02-07 All but forgotten except as a part of nostalgic lore American canals during the first half of the nineteenth century provided a transportation network that was vital to the development of the new nation They lowered transportation costs carried a vast grain trade from western farms to eastern ports delivered Pennsylvania coal to New York and carried thousands of passengers at what seemed effortless speed Along their courses sprang up new towns and cities and with them new economic growth Canals for a Nation brings together in one volume a survey of all the major American canals Here are accounts of innovative engineering of near heroic figures who devoted their lives to canals and of canal projects that triumphed over all the uncertainties of the political process **Management and Ideology** Judith A. Merkle,2023-11-10 From its obscure beginning as a system for organizing machine shops Scientific Management has grown into the major technocratic ideology of the twentieth century Its development and international diffusion have influenced industrial productivity the social fabric of industrial society and even the nature of government In this study of the movement s growth Merkle compares the writings of the American German French British and Soviet vanguards of Scientific Management and finds that those who advocated efficiency engineering were considerably more than pragmatists seeking immediate technical solutions to production problems Rather they were visionaries who sought to reconcile class conflict restructure government and create a universal technocratic utopia by achieving efficient mass production and rationalized distribution The call for a mental revolution which permeates their writings found sympathizers among capitalists and socialists alike that revolution affected not only the structure of modern industrialism but also the organization of the state itself This title is part of UC Press s Voices Revived program which commemorates University of California Press s mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1980 **Horses at Work** Ann Norton GREENE,Ann Norton Greene,2009-06-30 Historians have long assumed that new industrial machines and power sources eliminated work animals from nineteenth century America yet a bird s eye view of nineteenth century society would show millions of horses supplying the energy necessary for industrial development Horses were ubiquitous in cities and on farms providing power for transportation construction manufacturing and agriculture On Civil War battlefields thousands of horses labored and died for the Union and the Confederacy hauling wagons and mechanized weaponry The innovations that brought machinery to the forefront of American society made horses the prime movers of these machines for most of the nineteenth century Mechanization actually increased the need for horsepower by expanding the range of tasks requiring it Indeed the single most significant energy transition of the antebellum era may have been the dramatic expansion in the use of living breathing horses as a power technology in the development of industrial

America Ann Greene argues for recognition of horses critical contribution to the history of American energy and the rise of American industrial power and a new understanding of the reasons for their replacement as prime movers Rather than a result of inevitable technological change it was Americans social and political choices about power consumption that sealed this animal s fate The rise and fall of the workhorse was defined by the kinds of choices that Americans made and would continue to make choices that emphasized individual mobility and autonomy and assumed above all abundant energy resources

The Ideal of the Practical Frank Safford, 2014-11-11 The Ideal of the Practical is a study of efforts by a segment of the upper class in an aristocratic Latin American society to alter cultural values in the society creating stronger orientations toward the technical and the practical Frank Safford describes attempts by members of Colombia s nineteenth century political elite to use technical education as a means of nurturing energetic upper class entrepreneurs and an industrious working class in a static agrarian economy In the course of his analysis Safford sketches the historical development of scientific and technical education and of the engineering profession in Colombia The book opens with a description of the economic and social context of early nineteenth century Colombia It then discusses some early experiments with manual industrial training between 1820 and 1850 Later chapters deal with the careers of upper class youths sent abroad for scientific and technical training the growth of indigenous engineering education and the crystallization of a Colombian engineering profession While the book primarily explores the nineteenth century it also touches on eighteenth century Spanish Bourbon antecedents and provides an epilogue on the twentieth century evolution of technical elites in Colombia The author focuses on the reasons why the implantation of technical education and technical orientations proved difficult He examines the interplay between various obstructions on the one hand a hierarchical social structure and aristocratic social values and on the other obstructions created by fundamental geographic and economic conditions He concludes that while Colombian leaders had hoped that technical education and the development of values oriented toward the technical would spearhead economic growth in fact economic growth proved a prerequisite for the effective implantation of technical orientations and training

The New Metropolis Edward K. Spann, 1981 Few aspects of American military history have been as vigorously debated as Harry Truman s decision to use atomic bombs against Japan In this carefully crafted volume Michael Kort describes the wartime circumstances and thinking that form the context for the decision to use these weapons surveys the major debates related to that decision and provides a comprehensive collection of key primary source documents that illuminate the behavior of the United States and Japan during the closing days of World War II Kort opens with a summary of the debate over Hiroshima as it has evolved since 1945 He then provides a historical overview of the events in question beginning with the decision and program to build the atomic bomb Detailing the sequence of events leading to Japan s surrender he revisits the decisive battles of the Pacific War and the motivations of American and Japanese leaders Finally Kort examines ten key issues in the discussion of Hiroshima and guides readers to relevant primary source

documents scholarly books and articles **Designing Gotham** Jon Scott Logel, 2016-10-12 Between 1817 and 1898 New York City evolved from a vital Atlantic port of trade to the center of American commerce and culture With this rapid commercial growth and cultural development New York came to epitomize a nineteenth century metropolis Although this important urban transformation is well documented the critical role of select Union soldiers turned New York engineers has until now remained largely unexplored In *Designing Gotham* Jon Scott Logel examines the fascinating careers of George S Greene Egbert L Viele John Newton Henry Warner Slocum and Fitz John Porter all of whom studied engineering at West Point served in the United States Army during the Civil War and later advanced their civilian careers and status through the creation of Victorian New York These influential cadets trained at West Point in the nation's first engineering school a program designed by Sylvanus Thayer and Dennis Hart Mahan that would shape civil engineering in New York and beyond After the war these industrious professionals leveraged their education and military experience to wield significant influence during New York's social economic and political transformation Logel examines how each engineer's Civil War service shaped his contributions to postwar activities in the city including the construction of the Croton Aqueduct the creation of Central Park and the building of the Brooklyn Bridge Logel also delves into the administration of New York's municipal departments in which Military Academy alumni interacted with New York elites politicians and civilian trained engineers Examining the West Pointers' experiences as cadets military officers during the war and New Yorkers Logel assesses how these men impacted the growing metropolis the rise of professionalization and the advent of Progressivism at the end of the century *The Social Organization of Schooling* Larry V. Hedges, Barbara Schneider, 2005-05-26 Schools are complex social settings where students teachers administrators and parents interact to shape a child's educational experience Any effort to improve educational outcomes for America's children requires a dynamic understanding of the environments in which children learn In *The Social Organization of Schooling* editors Larry Hedges and Barbara Schneider assemble researchers from the fields of education organizational theory and sociology to provide a new framework for understanding and analyzing America's schools and the many challenges they face *The Social Organization of Schooling* closely examines the varied components that make up a school's social environment Contributors Adam Gamoran Ramona Gunter and Tona Williams focus on the social organization of teaching Using intensive case studies they show how positive professional relations among teachers contribute to greater collaboration the dissemination of effective teaching practices and ultimately a better learning environment for children Children learn more from better teachers but those best equipped to teach often opt for professions with higher social stature such as law or medicine In his chapter Robert Dreeben calls for the establishment of universal principles and practices to define good teaching arguing that such standards are necessary to legitimize teaching as a high status profession *The Social Organization of Schooling* also looks at how social norms in schools are shaped and reinforced by interactions among teachers and students Sociologist Maureen Hallinan shows that students who are challenged

intellectually and accepted socially are more likely to embrace school norms and accept responsibility for their own actions Using classroom observations surveys and school records Daniel McFarland finds that group based classroom activities are effective tools in promoting both social and scholastic development in adolescents The Social Organization of Schooling also addresses educational reforms and the way they affect a school s social structures Examining how testing policies affect children s opportunities to learn Chandra Muller and Kathryn Schiller find that policies which increased school accountability boosted student enrollment in math courses reflecting a shift in the school culture towards higher standards Employing a variety of analytical methods The Social Organization of Schooling provides a sound understanding of the social mechanisms at work in our educational system This important volume brings a fresh perspective to the many ongoing debates in education policy and is essential reading for anyone concerned with the future of America s children **The Works** Betsy H. Bradley,1999 While tracing the important developments in industrial architecture over a one hundred year period she demonstrates that as the United States became an industrialized nation the goals pursued in industrial architecture remained straightforward and constant even as the means to achieve them changed *History of Science in United States* Marc Rothenberg,2012-10-12 This Encyclopedia examines all aspects of the history of science in the United States with a special emphasis placed on the historiography of science in America It can be used by students general readers scientists or anyone interested in the facts relating to the development of science in the United States Special emphasis is placed in the history of medicine and technology and on the relationship between science and technology and science and medicine Land's End Albert E. Cowdrey,1977

Engineering In American Society 1850 1875: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Engineering In American Society 1850 1875 : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Engineering In American Society 1850 1875 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Engineering In American Society 1850 1875 Introduction

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