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KEY=GRADE - MOYER KARTER

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies Press *The Office of the Under Secretary of Defense (Personnel & Readiness)*, referred to throughout this report as P&R, is responsible for the total force management of all Department of Defense (DoD) components including the recruitment, readiness, and retention of personnel. Its work and policies are supported by a number of organizations both within DoD, including the Defense Manpower Data Center (DMDC), and externally, including the federally funded research and development centers (FFRDCs) that work for DoD. P&R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members' career satisfaction and their ability to meet new challenges. P&R must also address larger-scale questions, such as how the current realignment of forces to the Asia-Pacific area and other regions will affect recruitment, readiness, and retention. While DoD makes use of large-scale data and mathematical analysis in intelligence, surveillance, reconnaissance, and elsewhere—exploiting techniques such as complex network analysis, machine learning, streaming social media analysis, and anomaly detection—these skills and capabilities have not been applied as well to the personnel and readiness enterprise. **Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions** offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P&R. **CEPAL Review No.116, August 2015** [United Nations Cepal Review](#) is the leading journal for the study of economic and social development issues in Latin America and the Caribbean. Edited by the Economic Commission for Latin America, each issue focuses on economic trends, industrialization, income distribution, technological development and monetary systems, as well as the implementation of reforms and transfer of technology. Written in English and Spanish (Revista De La Cepal), each tri-annual issue brings you approximately 12 studies and essays undertaken by authoritative experts or gathered from conference proceedings. **The Tongue and Quill Afh 33-337** *The Tongue and Quill* has been a valued Air Force resource for decades and many Airmen from our Total Force of uniformed and civilian members have contributed their talents to various editions over the years. This revision is built upon the foundation of governing directives and user's inputs from the unit level all the way up to Headquarters Air Force. A small team of Total Force Airmen from the Air University, the United States Air Force Academy, Headquarters Air Education and Training Command (AETC), the Air Force Reserve Command (AFRC), Air National Guard (ANG), and Headquarters Air Force compiled inputs from the field and rebuilt *The Tongue and Quill* to meet the needs of today's Airmen. The team put many hours into this effort over a span of almost two years to improve the content, relevance, and organization of material throughout this handbook. As the final files go to press it is the desire of *The Tongue and Quill* team to say thank you to every Airman who assisted in making this edition better; you have our sincere appreciation! **Road Vehicle Automation 4** [Springer](#) This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation. Its chapters have been written by researchers, engineers and analysts from all around the globe. Topics covered include public sector activities, human factors and challenges, ethical, legal, energy and technology perspectives, vehicle systems development, as well as transportation infrastructure and planning. The book is based on the Automated Vehicles Symposium which took place in San Francisco, California (USA) in July 2016. **Homological Mirror Symmetry for the Quartic Surface** [American Mathematical Soc.](#) The author proves Kontsevich's form of the mirror symmetry conjecture for (on the symplectic geometry side) a quartic surface in \mathbb{C}^3 . **Imprimitive Irreducible Modules for Finite Quasisimple Groups** [American Mathematical Soc.](#) Motivated by the maximal subgroup problem of the finite classical groups the authors begin the classification of imprimitive irreducible modules of finite quasisimple groups over algebraically closed fields K . A module of a group G over K is imprimitive, if it is induced from a module of a proper subgroup of G . The authors obtain their strongest results when $\text{char}(K)=0$, although much of their analysis carries over into positive characteristic. If G is a finite quasisimple group of Lie type, they prove that an imprimitive irreducible KG -module is Harish-Chandra induced. This being true for $\text{char}(K)$ different from the defining characteristic of G , the authors specialize to the case $\text{char}(K)=0$ and apply Harish-Chandra philosophy to classify irreducible Harish-Chandra induced modules in terms of Harish-Chandra series, as well as in terms of Lusztig series. The authors determine the asymptotic proportion of the irreducible imprimitive KG -modules, when G runs through a series of groups of fixed (twisted) Lie type. One of the surprising outcomes of their investigations is the fact that these proportions tend to 1, if the Lie rank of the groups tends to infinity. For exceptional groups G of Lie type of small rank, and for sporadic groups G , the authors determine all irreducible imprimitive KG -modules for arbitrary characteristic of K . **Geometric Complexity Theory IV: Nonstandard Quantum Group for the Kronecker Problem** [American Mathematical Soc.](#) The Kronecker coefficient is the multiplicity of the λ -irreducible in the restriction of the μ -irreducible via the natural map ρ , where λ and μ are \mathfrak{sl}_n -vector spaces and ρ is a fundamental open problem in algebraic combinatorics is to find a positive combinatorial formula for these coefficients. The authors construct two quantum objects for this problem, which they call the nonstandard quantum group and nonstandard Hecke algebra. They show that the nonstandard quantum group has a compact real form and its representations are completely reducible, that the nonstandard Hecke algebra is semisimple, and that they satisfy an analog of quantum Schur-Weyl duality. **Irreducible Almost Simple Subgroups of Classical Algebraic Groups** [American Mathematical Soc.](#) Let G be a simple classical algebraic group over an algebraically closed field of characteristic p with natural module V . Let H be a closed subgroup of G and let W be a nontrivial H -restricted irreducible tensor indecomposable rational H -module such that the restriction of W to H is irreducible. In this paper the authors classify the triples of this form, where H and W is a disconnected almost simple positive-dimensional closed subgroup of G acting irreducibly on W . Moreover, by combining this result with earlier work, they complete the classification of the irreducible triples where H is a simple algebraic group over p , and W is a maximal closed subgroup of positive dimension. **The Science of Armour Materials** [Woodhead Publishing](#) *The Science of Armour Materials* comprehensively covers the range of armor materials from steels and light alloys, through glasses and ceramics, to fibers, textiles, and protective apparel. The book also discusses aspects of analytical and numerical modeling, as well as laboratory-based high-strain rate testing and ballistic testing methodologies. Each chapter is written from an international perspective, including reviews of the current global literature, and incorporates case studies that focus upon real life applications, research outcomes, and lessons learned. The threat spectrum is restricted to small arms ammunition, high velocity fragments, and stab and spike attacks, as well as blast loadings. Features input from an editor who is an expert in his field: Dr. Ian Crouch, the author of over 80 publications in his field, with three patents to his name Provides systematic and comprehensive coverage of armor materials, modeling, and testing Offers a cross-disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling, as well as laboratory-based high-strain rate testing and ballistic testing methodologies **Understanding and Reducing Landslide Disaster Risk Volume 4 Testing, Modeling and Risk Assessment** [Springer Nature](#) This book is a part of ICL new book series "ICL Contribution to Landslide Disaster Risk Reduction" founded in 2019. Peer-reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series. This book contains the followings: • Five keynote lectures • Recent development in physical modeling of landslides • Recent development in numerical modeling of landslides • Recent development in soil and rock testing techniques, application and analysis methods • Recent advancements in the methods of slope stability and deformation analyses • Recent development in disaster risk assessment Prof. Binod Tiwari is a Vice President of the International Consortium on Landslides (ICL). He is the Associate Vice President for research and sponsored project and Professor of civil and environmental engineering at the California State University, Fullerton, California, USA. Prof. Kyoji Sassa is the Founding President and the Secretary-General of the International Consortium on Landslides (ICL). He has been the Editor-in-Chief of International Journal Landslides since its foundation in 2004. Prof. Peter Bobrowsky is the President of the International Consortium on Landslides. He is a Senior Scientist of Geological Survey of Canada, Ottawa, Canada. Prof. Kaoru Takara is the Executive Director of the International Consortium on Landslides. He is a Professor and Dean of Graduate School of Advanced Integrated Studies (GSAIS) in Human Survivability (Shishu-Kan), Kyoto University. **Department of Justice Report Regarding the Criminal Investigation Into the Shooting Death of Michael Brown by Ferguson, Missouri Police Officer Darren Wilson** [Createspace Independent Publishing Platform](#) *The Department conducted an extensive investigation into the shooting of Michael Brown. Federal authorities reviewed physical, ballistic, forensic, and crime scene evidence; medical reports and autopsy reports, including an independent autopsy performed by the United States Department of Defense Armed Forces Medical Examiner Service ("AFMES"); Wilson's personnel records; audio and video recordings; and internet postings. FBI agents, St. Louis County Police Department ("SLCPD") detectives, and federal prosecutors and prosecutors from the St. Louis County Prosecutor's Office ("county prosecutors") worked cooperatively to both independently and jointly interview more than 100 purported eyewitnesses and other individuals claiming to have relevant information. SLCPD detectives conducted an initial canvass of the area on the day of the shooting. FBI agents then independently canvassed more than 300 residences to locate and interview additional witnesses. Federal and local authorities collected cellular phone data, searched social media sites, and tracked down dozens of leads from community members and dedicated law enforcement email addresses and tip lines in an effort to investigate every possible source of information. **Science, Gender and the Exploitation of Animals in Britain Since 1945** [Routledge](#) This book offers an historical analysis of the culture of animal-dependent science in Britain from 1945 to the present, exploring key areas of animal experimentation such as warfare, medical science and law from a gendered perspective. Questioning the nature of knowledge production in this area, and how animal experimentation intersects with broader cultural norms and values concerning sex, and gender, it examines the impact of contemporary forms of capitalism on animal dependent science, its historical trajectory and gendered configuration. With close attention to the broad social context from the creation of the Welfare State and the loss of Empire, to the emergence of neoliberalism in the 1980s and its present day omnipotent manifestation, the author asks how animal experimentation and the use of nonhuman animals in specific areas of science is gendered and has implications for women. Drawing on a variety of sociological, philosophical, feminist and historical theories and engaging with a wealth of primary and secondary materials of scientific research of the time, *Science, Gender and the Exploitation of Animals in Britain Since 1945* contends that there is a persistent, gendered ideology of animal use which remains inscribed within the policies of the British neoliberal state. As such, it will appeal to scholars of sociology, history and philosophy with interests in gender and the treatment of nonhuman animals. **Physical Test Methods for Elastomers** [Springer](#) This book provides comprehensive coverage of all aspects of physical testing of elastomers (rubbers and thermoplastic elastomers) including mechanical, electrical, thermal and all aspects of durability. Elastomers are an important class of materials used in such products as tyres, seals and hose which have markedly different properties to other materials. The importance of testing of elastomers means that a comprehensive text on the subject is essential. The advantage over general materials testing books is being more specific while the advantage over general rubber technology books is that testing is dealt with in depth. **Global Climate Change The Economic Costs of Mitigation and Adaptation** [Springer Science & Business Media](#) Bacteria in a test tube and humans on our planet follow the same population curve as time elapses. We on this earth, largely through control of disease, are rapidly approaching maximum population, and through energy demands are using up our resources and accumulating wastes. We have come to realize the danger of a maturing system but have made essentially no impact in mitigating or preventing the problems we face. While we have been able to change the world we live in, most of our effects have been to degrade the planet. We have nibbled away at the quality of the atmosphere for centuries and the accumulated damage has resulted in changing the world's climate at an ever-increasing rate. We now face the possibility of higher average temperatures over most of our planet, changing patterns of rainfall, rising sea levels, aggravated storm systems and a myriad of social effects. **Pain Management and the Opioid Epidemic Balancing Societal and Individual Benefits and Risks of Prescription Opioid Use** [National Academies Press](#) Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring. **Quality Physical Education (QPE) Guidelines***

for Policy Makers [UNESCO Publishing](#) **Tunnel Visions The Rise and Fall of the Superconducting Super Collider** [University of Chicago Press](#) Starting in the 1950s, US physicists dominated the search for elementary particles; aided by the association of this research with national security, they held this position for decades. In an effort to maintain their hegemony and track down the elusive Higgs boson, they convinced President Reagan and Congress to support construction of the multibillion-dollar Superconducting Super Collider project in Texas—the largest basic-science project ever attempted. But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars, Congress terminated the project in October 1993. Drawing on extensive archival research, contemporaneous press accounts, and over one hundred interviews with scientists, engineers, government officials, and others involved, *Tunnel Visions* tells the riveting story of the aborted SSC project. The authors examine the complex, interrelated causes for its demise, including problems of large-project management, continuing cost overruns, and lack of foreign contributions. In doing so, they ask whether Big Science has become too large and expensive, including whether academic scientists and their government overseers can effectively manage such an enormous undertaking. **Science, the Endless Frontier A Report to the President** This influential report described science as "a largely unexplored hinterland" that would provide the "essential key" to the economic prosperity of the post World War II years. **Shiphandling Simulation Application to Waterway Design** [National Academies Press](#) As a result of major shipping disasters on all coasts, the safety of vessel operations in U.S. ports and waterways and the effectiveness of waterway designs are under increased scrutiny. But are traditional waterway design practices that rely heavily on rules of thumb and conservatism providing adequate margins of safety while keeping the overall costs of waterway projects within the funding capabilities of local project sponsors? *Shiphandling Simulation* addresses how computer-based simulation can be used to improve the cost-effectiveness of waterway design while satisfying safety objectives. The book examines the role of computer simulation in improving waterway design, evaluates the adequacy of data input, explores the validity of hydrodynamic and mathematical models, assesses required and achievable accuracy of simulation results, and identifies research needed to establish shiphandling simulation as a standard design aid. Case studies of waterway design efforts employing shiphandling simulation are analyzed and lessons learned are identified. **CRREL Technical Publications, 1950-1975 Bulk Collection of Signals Intelligence Technical Options** [National Academies Press](#) The Bulk Collection of Signals Intelligence: Technical Options study is a result of an activity called for in Presidential Policy Directive 28 (PPD-28), issued by President Obama in January 2014, to evaluate U.S. signals intelligence practices. The directive instructed the Office of the Director of National Intelligence (ODNI) to produce a report within one year "assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection." ODNI asked the National Research Council (NRC) -- the operating arm of the National Academy of Sciences and National Academy of Engineering -- to conduct a study, which began in June 2014, to assist in preparing a response to the President. Over the ensuing months, a committee of experts appointed by the Research Council produced the report. **The Coding Manual for Qualitative Researchers** [SAGE](#) The Second Edition of Johnny Saldaña's international bestseller provides an in-depth guide to the multiple approaches available for coding qualitative data. Fully up to date, it includes new chapters, more coding techniques and an additional glossary. Clear, practical and authoritative, the book: -describes how coding initiates qualitative data analysis -demonstrates the writing of analytic memos -discusses available analytic software -suggests how best to use *The Coding Manual for Qualitative Researchers* for particular studies. In total, 32 coding methods are profiled that can be applied to a range of research genres from grounded theory to phenomenology to narrative inquiry. For each approach, Saldaña discusses the method's origins, a description of the method, practical applications, and a clearly illustrated example with analytic follow-up. A unique and invaluable reference for students, teachers, and practitioners of qualitative inquiry, this book is essential reading across the social sciences. **The Mueller Report The Final Report of the Special Counsel on Russian Interference in the 2016 Presidential Election** [Courier Dover Publications](#) This is the full Mueller Report, as released on April 18, 2019, by the U.S. Department of Justice. A reprint of the report exactly as it was issued by the government, it is without analysis or commentary from any other source and with nothing subtracted except for the material redacted by the Department of Justice. The mission of the Mueller investigation was to examine Russian interference in the 2016 Presidential election, consisting of possible links, or "collusion," between the Donald Trump campaign and the Russian government of Vladimir Putin as well as any allegations of obstruction of justice in this regard. It was also intended to detect and prosecute, where warranted, any other crimes that surfaced during the course of the investigation. The report consists of a detailed summary of the various investigations and inquiries that the Special Counsel and colleagues carried out in these areas. The investigation was initiated in the aftermath of the firing of FBI Director James Comey by Donald Trump on May 9, 2017. The FBI, under Director Comey, had already been investigating links between Russia and the Trump campaign. Mueller submitted his report to Attorney General William Barr on March 22, 2019, and the Department of Justice released the redacted report one month later. **Department of Defense Dictionary of Military and Associated Terms Scientists at War** [Harvard University Press](#) Sarah Bridger examines the ethical debates that tested the U.S. scientific community during the Cold War, and scientists' contributions to military technologies and strategic policymaking, from the dawning atomic age through the Strategic Defense Initiative (Star Wars) in the 1980s, which sparked cross-generational opposition among scientists. **Rebuilding resilient and sustainable agriculture in Somalia (Full report)** [Food & Agriculture Org.](#) This report documents the pressures on Somalia's livestock and crop subsectors over the years but notes that there is a cause for optimism thanks to the country's resilience and resources. These include a variety of agroecological zones and vast tracts of arable land and areas suitable for livestock production, which in turn can support markets, export trade and overall growth. **Nuclear Science Abstracts Mapping the Third Offset: Australia, the United States and Future War in the Indo-Pacific** [United States Studies Centre at the University of Sydney](#) The United States is facing multiple challenges to sustaining its military-technological edge in the Indo-Pacific: The proliferation of advanced missiles, submarines, satellites and other technology has raised the costs and risks for the United States in a regional conflict. Access to advanced technology and innovation has spread, raising the importance of the private sector in maintaining military superiority but also generating new centres of technological progress. The United States' current defence strategy and capabilities are increasingly economically unsustainable, and its defence budget is stagnating due to political polarisation in Congress. The Third Offset is a set of strategies that aims to bolster US conventional military power by mobilising innovation, new technologies and institutional reform: The United States is placing 'bets' on a series of new technologies, from artificial intelligence to hypersonic weapons, that will allow its military to project force in contested environments. Some of these technologies will, in theory, allow for more economically sustainable military operations and capabilities. Reforming US defence institutions to prioritise innovation, and seeking ways to take advantage of new technologies in the private sector, are attempts to embed and sustain US military advantage. The direction of the Third Offset, and its success or failure, should inform Australia's strategic outlook. Canberra should seek to expand engagement with the Third Offset, particularly through the following institutional aspects: A United States-Australia Defence Technology Workshop should be established to generate new ideas around Indo-Pacific technological trends, investment and new military concepts. Canberra should explore the possibility of hosting, or jointly funding, an international Defence Innovation Unit Experimental Office, providing strategic coordination on technological developments, resourcing and opportunities for Australian defence firms. Australia needs to expand its engagement with the United States on the testing, exercises and simulations that will form new Third Offset military concepts. **Oceanobs'19: An Ocean of Opportunity. Volume II** [Frontiers Media SA](#) **Desertification Environmental Degradation In And Around Arid Lands** [CRC Press](#) **Investing in the Health and Well-Being of Young Adults** [National Academies Press](#) Young adulthood - ages approximately 18 to 26 - is a critical period of development with long-lasting implications for a person's economic security, health and well-being. Young adults are key contributors to the nation's workforce and military services and, since many are parents, to the healthy development of the next generation. Although 'millennials' have received attention in the popular media in recent years, young adults are too rarely treated as a distinct population in policy, programs, and research. Instead, they are often grouped with adolescents or, more often, with all adults. Currently, the nation is experiencing economic restructuring, widening inequality, a rapidly rising ratio of older adults, and an increasingly diverse population. The possible transformative effects of these features make focus on young adults especially important. A systematic approach to understanding and responding to the unique circumstances and needs of today's young adults can help to pave the way to a more productive and equitable tomorrow for young adults in particular and our society at large. *Investing in The Health and Well-Being of Young Adults* describes what is meant by the term young adulthood, who young adults are, what they are doing, and what they need. This study recommends actions that nonprofit programs and federal, state, and local agencies can take to help young adults make a successful transition from adolescence to adulthood. According to this report, young adults should be considered as a separate group from adolescents and older adults. *Investing in The Health and Well-Being of Young Adults* makes the case that increased efforts to improve high school and college graduate rates and education and workforce development systems that are more closely tied to high-demand economic sectors will help this age group achieve greater opportunity and success. The report also discusses the health status of young adults and makes recommendations to develop evidence-based practices for young adults for medical and behavioral health, including preventions. What happens during the young adult years has profound implications for the rest of the life course, and the stability and progress of society at large depends on how any cohort of young adults fares as a whole. *Investing in The Health and Well-Being of Young Adults* will provide a roadmap to improving outcomes for this age group as they transition from adolescence to adulthood. **The Road to Relativity The History and Meaning of Einstein's "The Foundation of General Relativity", Featuring the Original Manuscript of Einstein's Masterpiece** [Princeton University Press](#) An annotated facsimile edition of Einstein's handwritten manuscript on the foundations of general relativity This richly annotated facsimile edition of "The Foundation of General Relativity" introduces a new generation of readers to Albert Einstein's theory of gravitation. Written in 1915, this remarkable document is a watershed in the history of physics and an enduring testament to the elegance and precision of Einstein's thought. Presented here is a beautiful facsimile of Einstein's original handwritten manuscript, along with its English translation and an insightful page-by-page commentary that places the work in historical and scientific context. Hanoch Gutfreund and Jürgen Renn's concise introduction traces Einstein's intellectual odyssey from special to general relativity, and their essay "The Charm of a Manuscript" provides a delightful meditation on the varied afterlife of Einstein's text. Featuring a foreword by John Stachel, this handsome edition also includes a biographical glossary of the figures discussed in the book, a comprehensive bibliography, suggestions for further reading, and numerous photos and illustrations throughout. **Routledge Handbook of Asian Demography** [Taylor & Francis](#) Home to close to 60 per cent of the world's population, Asia is the largest and by far the most populous continent. It is also extremely diverse, physically and culturally. Asian countries and regions have their own distinctive histories, cultural traditions, religious beliefs and political systems, and they have often pursued different routes to development. Asian populations also present a striking array of demographic characteristics and stages of demographic transition. This handbook is the first to provide a comprehensive study of population change across the whole of Asia. Comprising 28 chapters by more than 40 international experts this handbook examines demographic transitions on the continent, their considerable variations, their causes and consequences, and their relationships with a wide range of social, economic, political and cultural processes. Major topics covered include: population studies and sources of demographic data; historical demography; family planning and fertility decline; sex preferences; mortality changes; causes of death; HIV/AIDS; population distribution and migration; urbanization; marriage and family; human capital and labour force; population ageing; demographic dividends; political demography; population and environment; and Asia's demographic future. This handbook provides an authoritative and comprehensive reference for researchers, policymakers, academics, students and anyone who is interested in population change in Asia and the world. **Crime, Violence, and Global Warming** [Routledge](#) *Crime, Violence, and Global Warming* introduces the many connections between climate change and criminal activity. Conflict over natural resources can escalate to state and non-state actors, resulting in wars, asymmetrical warfare, and terrorism. Crank and Jacoby apply criminological theory to each aspect of this complicated web, helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime. Beginning with an overview of the science of global warming, the authors move on to the links between climate change, scarce resources, and crime. Their approach takes in the full scope of causes and consequences, present and future, in the United States and throughout the world. The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates. This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet's future. **Current Catalog** Includes subject section, name section, and 1968-1970, technical reports. **Reclamation of Mine-impacted Land for Ecosystem Recovery** [John Wiley & Sons](#) Mining activities significantly impact the environment; they generate huge quantities of spoil, promote deforestation and the loss of agricultural production, as well as releasing contaminants that result in the loss of valuable soil resources. These negative impacts are now being recognized and this book shows how corrective action can be taken. The introduction of sustainable mining requires mitigation strategies that start during the mine planning stage and extend to after mineral extraction has ceased, and post-closure activities are being executed. *Reclamation of Mine-impacted Land for Ecosystem Recovery* covers: methods of rejuvenation of mine wasteland including different practices of physical, chemical and ecological engineering methods; benefits of rejuvenation: stabilization of land surfaces; pollution control; aesthetic improvement; general amenity; plant productivity; and carbon sequestration as well as restoring biodiversity and ecosystem function; best management practices and feasible solutions to the impacts of mining which will reduce the pollution load by reducing the discharge rate and the pollutant concentration; reduce erosion and sedimentation problems, and result in improved abandoned mine lands; and ecosystem development. The authors explain how mining impacts on soil properties and how soil carbon reserves/soil fertility can be restored when mining has ceased. Restoration involves a coordinated approach that recognizes the importance of key soil properties to enable re-vegetation to take place rapidly and ecosystems to be established in a low cost and sustainable way. This book's unique combination of the methods for reclamation technologies with policies and best practice worldwide will provide the background and the guidance needed by scientists, researchers and engineers engaged in land

reclamation, as well as by industry managers. **National Library of Medicine Current Catalog Annual cumulation Onsite Wastewater Treatment Systems Manual** "This manual contains overview information on treatment technologies, installation practices, and past performance."--Intro. **Sums of Reciprocals of Fractional Parts and Multiplicative Diophantine Approximation** American Mathematical Soc. **CR Embedded Submanifolds of CR Manifolds** American Mathematical Soc. The authors develop a complete local theory for CR embedded submanifolds of CR manifolds in a way which parallels the Ricci calculus for Riemannian submanifold theory. They define a normal tractor bundle in the ambient standard tractor bundle along the submanifold and show that the orthogonal complement of this bundle is not canonically isomorphic to the standard tractor bundle of the submanifold. By determining the subtle relationship between submanifold and ambient CR density bundles the authors are able to invariantly relate these two tractor bundles, and hence to invariantly relate the normal Cartan connections of the submanifold and ambient manifold by a tractor analogue of the Gauss formula. This also leads to CR analogues of the Gauss, Codazzi, and Ricci equations. The tractor Gauss formula includes two basic invariants of a CR embedding which, along with the submanifold and ambient curvatures, capture the jet data of the structure of a CR embedding. These objects therefore form the basic building blocks for the construction of local invariants of the embedding. From this basis the authors develop a broad calculus for the construction of the invariants and invariant differential operators of CR embedded submanifolds. The CR invariant tractor calculus of CR embeddings is developed concretely in terms of the Tanaka-Webster calculus of an arbitrary (suitably adapted) ambient contact form. This enables straightforward and explicit calculation of the pseudohermitian invariants of the embedding which are also CR invariant. These are extremely difficult to find and compute by more naïve methods. The authors conclude by establishing a CR analogue of the classical Bonnet theorem in Riemannian submanifold theory.