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# Engineering Science Memo 19 November 2014

**Michael T. Klare**



## **Engineering Science Memo 19 November 2014:**

**Einstellung von Volumenströmen im Bereich der Nanofluidik** Yavuz Selim Mutlu, 2015-11-05 Yavuz Selim Mutlu stellt die Entwicklung zweier Fluid Drosselvarianten aus porösen Keramiken vor. Ziel ist es, eine neue Methode zu realisieren, um Volumenströme in der Nanofluidik verstellen zu können. Ein Einsatz dieser verstellbaren Drosseln ist in den implantierbaren Infusionspumpen in der Schmerz- und Spastiktherapie möglich. Der Autor beschreibt das Anwendungsspektrum implantierbarer Infusionspumpen und führt in die Grundlagen der Fluidmechanik mit dem Bezug zur Strömungssimulation mit der Software GeoDict ein. Er untersucht und charakterisiert zwei Keramiktypen, beschreibt den Aufbau und die Funktionsweise beider Drosseltypen und stellt die Permeabilitätseigenschaften der porösen Medien sowie die Durchflussbereiche in der Nanofluidik vor. Die Herstellung einer Fluid Drossel aus porösen Keramiken ist kostengünstig und in der Anwendung energiesparend.

*Applying a Health Lens to Business Practices, Policies, and Investments* National Academies of Sciences, Engineering, and Medicine, Institute of Medicine, Board on Population Health and Public Health Practice, Roundtable on Population Health Improvement, 2016-07-29. In 2013 the Institute of Medicine IOM Roundtable on Population Health Improvement organized a workshop to discuss opportunities to foster a health in all policies approach in non health sectors such as housing, transportation, defense, education, and others. Much of the discussion focused on public sector organizations and roundtable members saw the need for further discussion of the role of the private sector both as stakeholder and partner. On June 4, 2015, the roundtable convened a follow up workshop focused on applying a health lens to the role and potential of businesses in improving economic well being and community health outcomes. Participants explored what businesses can offer the movement to improve population health and areas of potential as well as models for how businesses can impact the determinants of health and developed a platform for discussing how to promote and support health in all business practices, policies, and investments. This report summarizes the presentations and discussions from the workshop.

**The History of the Study of Landforms or the Development of Geomorphology, Volume 5** T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20. Co-published with British Society for Geomorphology. This volume is the fifth in the definitive series *The History of the Study of Landforms or the Development of Geomorphology*. Volume 1 (1964) dealt with contributions to the field up to 1890. Volume 2 (1973) with the concepts and contributions of William Morris Davis. Volume 3 (1991) covered historical and regional themes during the classic period of geomorphology (1890-1950). Volume 4 (2008) concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965. By the end of this period, process-based studies had become dominant. Volume 5 builds on this platform, covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century. It is divided into three sections: the first deals with changes in approach and method; the second with changes in ideas and the broader scientific context within which geomorphology is studied; and the final section details advances in research on processes and landforms.

The volume's objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology

**Captured** Senator Sheldon Whitehouse, 2019-05-21 A leading member of the Senate Judiciary Committee spells out in considerable detail the extent of corporate influence over a variety of issues in national politics The New Yorker As a U S senator and former federal prosecutor Sheldon Whitehouse has had a front row seat for the spectacle of dark money in government In his widely praised book *Captured* he describes how corporations buy influence over our government not only over representatives and senators but over the very regulators directly responsible for enforcing the laws under which these corporations operate and over the judges and prosecutors who are supposed to be vigilant about protecting the public interest In a case study that shows these operations at work Whitehouse reveals how fossil fuel companies have held any regulation related to climate change at bay The problem is structural as Kirkus Reviews wrote many of the ills it illuminates are bipartisan This paperback edition features a new preface by the author that reveals how corporate influence has taken advantage of Donald Trump's presidency to advance its agenda and what we can do about it

Remote Sensing Floyd F. Sabins, Jr., James M. Ellis, 2020-04-01 Remote sensing has undergone profound changes over the past two decades as GPS GIS and sensor advances have significantly expanded the user community and availability of images New tools such as automation cloud based services drones and artificial intelligence continue to expand and enhance the discipline Along with comprehensive coverage and clarity Sabins and Ellis establish a solid foundation for the insightful use of remote sensing with an emphasis on principles and a focus on sensor technology and image acquisition The Fourth Edition presents a valuable discussion of the growing and permeating use of technologies such as drones and manned aircraft imaging DEMs and lidar The authors explain the scientific and societal impacts of remote sensing review digital image processing and GIS provide case histories from areas around the globe and describe practical applications of remote sensing to the environment renewable and nonrenewable resources land use land cover natural hazards and climate change Remote Sensing Digital Database includes 27 examples of satellite and airborne imagery that can be used to jumpstart labs and class projects The database includes descriptions georeferenced images DEMs maps and metadata Users can display process and interpret images with open source and commercial image processing and GIS software Flexible revealing and instructive the Digital Image Processing Lab Manual provides 12 step by step exercises on the following topics an introduction to ENVI Landsat multispectral processing image processing band ratios and principal components georeferencing DEMs and lidar IHS and image sharpening unsupervised classification supervised classification hyperspectral and change detection and radar Introductory and instructional videos describe and guide users on ways to access and utilize the Remote Sensing Digital Database and the Digital Image Processing Lab Manual Answer Keys are available for instructors for questions in the text as well as the Digital Image Processing Lab Manual

Bulk Collection of Signals Intelligence National Research Council, Division on Engineering and Physical Sciences, Computer

Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 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

*Scientific and Technical Aerospace Reports*, 1970      **U.S. Government Research Reports**, 1963      *Engineering the Environment* David P. D. Munns, 2017-07-19 Promising an end to global hunger and political instability huge climate controlled laboratories known as phytotrons spread around the world to thirty countries after the Second World War The United States built nearly a dozen including the first at Caltech in 1949 Made possible by computers and other novel greenhouse technologies of the early Cold War phytotrons enabled plant scientists to experiment on the environmental causes of growth and development of living organisms Subsequently they turned biologists into technologists who in their pursuit of knowledge about plants also set out to master the machines that controlled their environment Engineering the Environment tells the forgotten story of a research program that revealed the shape of the environment the limits of growth and development and the limits of human control over complex technological systems As support and funding for basic science dwindled in the mid 1960s phytotrons declined and ultimately disappeared until nearly thirty years later the British built the Ecotron to study the impact of climate change on biological communities By revisiting this history of phytotrons David Munns reminds us of the vital role they can play in helping researchers unravel the complexities of natural ecosystems in the Anthropocene      **Applications of Data Assimilation and Inverse Problems in the Earth Sciences** Alik Ismail-Zadeh, Fabio Castelli, Dylan Jones, Sabrina Sanchez, 2023-07-06 Many contemporary problems within the Earth sciences are complex and require an interdisciplinary approach This book provides a comprehensive reference on data assimilation and inverse problems as well as their applications across a broad range of geophysical disciplines With contributions from world leading researchers it covers basic knowledge about geophysical inversions and data assimilation and discusses a range of important research issues and applications in atmospheric and cryospheric sciences hydrology geochronology geodesy geodynamics geomagnetism gravity near Earth electron radiation seismology and volcanology Highlighting the importance of research in data assimilation for understanding dynamical processes of the Earth and its space environment and for predictability it summarizes relevant new advances in data assimilation and inverse problems related to different

geophysical fields Covering both theory and practical applications it is an ideal reference for researchers and graduate students within the geosciences who are interested in inverse problems data assimilation predictability and numerical methods Natural Catastrophe Risk Management and Modelling Kirsten Mitchell-Wallace,Matthew Jones,John Hillier,Matthew Foote,2017-06-26 This book covers both the practical and theoretical aspects of catastrophe modelling for insurance industry practitioners and public policymakers Written by authors with both academic and industry experience it also functions as an excellent graduate level text and overview of the field Ours is a time of unprecedented levels of risk from both natural and anthropogenic sources Fortunately it is also an era of relatively inexpensive technologies for use in assessing those risks The demand from both commercial and public interests including re insurers NGOs global disaster management agencies and local authorities for sophisticated catastrophe risk assessment tools has never been greater and contemporary catastrophe modelling satisfies that demand Combining the latest research with detailed coverage of state of the art catastrophe modelling techniques and technologies this book delivers the knowledge needed to use interpret and build catastrophe models and provides greater insight into catastrophe modelling s enormous potential and possible limitations The first book containing the detailed practical knowledge needed to support practitioners as effective catastrophe risk modellers and managers Includes hazard vulnerability and financial material to provide the only independent comprehensive overview of the subject accessible to students and practitioners alike Demonstrates the relevance of catastrophe models within a practical decision making framework and illustrates their many applications Includes contributions from many of the top names in the field globally from industry academia and government Natural Catastrophe Risk Management and Modelling A Practitioner s Guide is an important working resource for catastrophe modelling analysts and developers actuaries underwriters and those working in compliance or regulatory functions related to catastrophe risk It is also valuable for scientists and engineers seeking to gain greater insight into catastrophe risk management and its applications Iran's Rocket and Missile Forces and Strategic Options Anthony H.

Cordesman,2015-01-23 Iran s rocket and missile forces serve a wide range of Iranian strategic objectives These forces range from relatively short range artillery rockets that support its ground forces and limit the need for close air support to long range missiles that can reach any target in the region and the development of booster systems that might give Iran the ability to strike at targets throughout Europe and even in the United States Iran s forces and systems are steadily evolving While the lethality of most current systems is limited by a reliance on conventional warheads poor accuracy and uncertain reliability Iran is developing steadily improved guidance systems attempting to improve the lethality of its conventional warheads and has at least studied arming its missiles with nuclear warheads **The Practice of Enterprise Modeling**

Geert Poels,Frederik Gailly,Estefania Serral Asensio,Monique Snoeck,2017-11-14 This volume constitutes the proceedings of the 10th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2017 in Leuven Belgium The

conference was created by the International Federation for Information Processing IFIP Working Group 8.1 to offer a forum for knowledge transfer and experience sharing between the academic and practitioner communities. The 20 full papers and 4 short papers accepted were carefully reviewed and selected from 70 submissions. They include research results, practitioner experience reports, and work in progress papers and were presented in 8 sessions covering diverse topics related to enterprise modelling and its application in practice.

*China as a Twenty-First Century Naval Power* Michael A. McDevitt, 2020-10-15. Xi Jinping has made his ambitions for the People's Liberation Army (PLA) perfectly clear: there is no mystery what he wants. First, that China should become a great maritime power, and secondly, that the PLA become a world class armed force by 2050. He wants this latter objective to be largely completed by 2035. China as a Twenty-First Century Naval Power focuses on China's navy and how it is being transformed to satisfy the world class goal. Beginning with an exploration of why China is seeking to become such a major maritime power, author Michael McDevitt first explores the strategic rationale behind Xi's two objectives. China's reliance on foreign trade and overseas interests such as China's Belt and Road strategy. In turn, this has created concerns within the senior levels of China's military about the vulnerability of its overseas interests and maritime life lines is a major theme. McDevitt dubs this China's sea lane anxiety and traces how this has required the PLA Navy to evolve from a near seas focused navy to one that has global reach: a blue water navy. He details how quickly this transformation has taken place thanks to a patient step by step approach and abundant funding. The more than 10 years of anti piracy patrols in the far reaches of the Indian Ocean has acted as a learning curve accelerator to blue water status. McDevitt then explores the PLA Navy's role in the South China Sea and the Indian Ocean. He provides a detailed assessment of what the PLAN will be expected to do if Beijing chooses to attack Taiwan, potentially triggering combat with America's first responders in East Asia, especially the U.S. Seventh Fleet and U.S. Fifth Air Force. He conducts a close exploration of how the PLA Navy fits into China's campaign plan aimed at keeping reinforcing U.S. forces at arm's length, what the Pentagon calls anti access and area denial (A2/AD), if war has broken out over Taiwan or because of attacks on U.S. allies and friends that live in the shadow of China. McDevitt does not know how Xi defines world class, but the evidence from the past 15 years of building a blue water force has already made the PLA Navy the second largest globally capable navy in the world. This book concludes with a forecast of what Xi's vision of a world class navy might look like in the next fifteen years when the 2035 deadline is reached.

*The Squares* Cyrus C. M. Mody, 2022-07-12. When ungroovy scientists did groovy science, how non-activist scientists and engineers adapted their work to a rapidly changing social and political landscape. In *The Squares*, Cyrus Mody shows how between the late 1960s and the early 1980s, some scientists and engineers who did not consider themselves activists, New Leftists, or members of the counterculture accommodated their work to the rapidly changing social and political landscape of the time. These square scientists, Mody shows, began to do many of the things that the counterculture urged: turn away from military industrial funding, become more interdisciplinary, and focus their research

on solving problems of civil society During the period Mody calls the long 1970s ungroovy scientists were doing groovy science Mody offers a series of case studies of some of these collective efforts by non activist scientists to use their technical knowledge for the good of society He considers the region around Santa Barbara and the interplay of public universities think tanks established firms new companies philanthropies and social movement organizations He looks at Stanford University s transition from Cold War science to commercialized technoscience NASA s search for a post Apollo mission the unsuccessful foray into solar energy by Nobel laureate Jack Kilby the civilianization of the US semiconductor industry and systems engineer Arthur D Hall s ill fated promotion of automated agriculture

**Using Graywater and Stormwater to Enhance Local Water Supplies** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Committee on the Beneficial Use of Graywater and Stormwater: An Assessment of Risks, Costs, and Benefits, 2016-07-30 Chronic and episodic water shortages are becoming common in many regions of the United States and population growth in water scarce regions further compounds the challenges Increasingly alternative water sources such as graywater untreated wastewater that does not include water from the toilet but generally includes water from bathroom sinks showers bathtubs clothes washers and laundry sinks and stormwater water from rainfall or snow that can be measured downstream in a pipe culvert or stream shortly after the precipitation event are being viewed as resources to supplement scarce water supplies rather than as waste to be discharged as rapidly as possible Graywater and stormwater can serve a range of non potable uses including irrigation toilet flushing washing and cooling although treatment may be needed Stormwater may also be used to recharge groundwater which may ultimately be tapped for potable use In addition to providing additional sources of local water supply harvesting stormwater has many potential benefits including energy savings pollution prevention and reducing the impacts of urban development on urban streams Similarly the reuse of graywater can enhance water supply reliability and extend the capacity of existing wastewater systems in growing cities Despite the benefits of using local alternative water sources to address water demands many questions remain that have limited the broader application of graywater and stormwater capture and use In particular limited information is available on the costs benefits and risks of these projects and beyond the simplest applications many state and local public health agencies have not developed regulatory frameworks for full use of these local water resources To address these issues Using Graywater and Stormwater to Enhance Local Water Supplies analyzes the risks costs and benefits on various uses of graywater and stormwater This report examines technical economic regulatory and social issues associated with graywater and stormwater capture for a range of uses including non potable urban uses irrigation and groundwater recharge Using Graywater and Stormwater to Enhance Local Water Supplies considers the quality and suitability of water for reuse treatment and storage technologies and human health and environmental risks of water reuse The findings and recommendations of this report will be valuable for water managers citizens of states under a current drought and local and



state health and environmental agencies      All Hell Breaking Loose Michael T. Klare, 2019-11-12 All Hell Breaking Loose is an eye opening examination of climate change from the perspective of the U S military The Pentagon unsentimental and politically conservative might not seem likely to be worried about climate change still linked for many people with polar bears and coral reefs Yet of all the major institutions in American society none take climate change as seriously as the U S military Both as participants in climate triggered conflicts abroad and as first responders to hurricanes and other disasters on American soil the armed services are already confronting the impacts of global warming The military now regards climate change as one of the top threats to American national security and is busy developing strategies to cope with it Drawing on previously obscure reports and government documents renowned security expert Michael Klare shows that the U S military sees the climate threat as imperiling the country on several fronts at once Droughts and food shortages are stoking conflicts in ethnically divided nations with climate refugees producing worldwide havoc Pandemics and other humanitarian disasters will increasingly require extensive military involvement The melting Arctic is creating new seaways to defend And rising seas threaten American cities and military bases themselves While others still debate the causes of global warming the Pentagon is intensely focused on its effects Its response makes it clear that where it counts the immense impact of climate change is not in doubt      Designing Ergonomic, Safe, and Attractive Mining Workplaces Joel Lööw, Bo Johansson, Eira Andersson, Jan Johansson, 2018-11-12 The mining industry has experienced important improvements with regard to its safety record and work environment But there is still room for further improvement and the mining industry now faces the challenge of securing a future workforce The current workforce is aging and mining work increasingly requires a more qualified workforce Designing Ergonomic Safe and Attractive Mining Workplaces seeks to give an understanding of what must be considered in the design of mining workplaces By reviewing and discussing the historic and current development of the mining industry as well as problems related to the safety ergonomics and attractiveness of mining workplaces it demonstrates that the challenges facing the mining industry often need to be solved on a case to case basis The processes through which these issues are managed are of significant importance To facilitate a proactive approach the book covers the principles of systematic work environment management together with examples of methods for risk management and work environment monitoring It introduces a systematic and iterative design and planning method for the mining industry This method acknowledges that all relevant stakeholders must be able to influence the design of ergonomic safe and attractive mining workplaces Features Takes a holistic and sociotechnical approach to current and future problems of the mining industry which normally are dealt with in isolation or through technology Reviews historic current and future issues in the mining industry with regards to workplace attractiveness health safety mechanization automation and work organization Provides several examples of these issues and attempts to address them successfully and unsuccessfully Covers the principles of systematic work environment management together with examples of methods for risk management and work

environment monitoring for pro actively dealing with work environment issues Introduces a systematic and iterative design and planning method for the mining industry that aims to avoid problems of traditional planning approaches and increase stakeholder and employee participation

### **Knowledge Discovery in Big Data from Astronomy and Earth Observation**

Petr Skoda,Fathalrahman Adam,2020-04-09 Knowledge Discovery in Big Data from Astronomy and Earth Observation Astrogeoinformatics bridges the gap between astronomy and geoscience in the context of applications techniques and key principles of big data Machine learning and parallel computing are increasingly becoming cross disciplinary as the phenomena of Big Data is becoming common place This book provides insight into the common workflows and data science tools used for big data in astronomy and geoscience After establishing similarity in data gathering pre processing and handling the data science aspects are illustrated in the context of both fields Software hardware and algorithms of big data are addressed Finally the book offers insight into the emerging science which combines data and expertise from both fields in studying the effect of cosmos on the earth and its inhabitants

**Improving the EPA Multi-Sector General Permit for Industrial Stormwater Discharges** National Academies of Sciences, Engineering, and Medicine,Division on Earth and Life Studies,Water Science and Technology Board,Committee on Improving the Next-Generation EPA Multi-Sector General Permit for Industrial Stormwater Discharges,2019-10-11 Industrial stormwater is derived from precipitation and or runoff that comes in contact with industrial manufacturing processing storage or material overburden and then runs offsite and enters drainage systems or receiving waters In 1987 Congress significantly expanded the National Pollutant Discharge Elimination System NPDES program through amendments to the Clean Water Act to include industrial stormwater runoff conveyed through outfalls directly to receiving waters or indirectly through municipal separate storm sewer systems The added regulation of stormwater in the NPDES program has been challenging Stormwater is produced throughout a developed landscape and its production and delivery are episodic In 2009 the National Research Council released a comprehensive report on the Environmental Protection Agency s Stormwater Program that covered all sectors of the program This study builds on that report with a focus on industrial stormwater monitoring and management

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