

Rohatgi Saleh Solutions

Radionuclide Contamination and Remediation Through Plants Water and Urban Development Paradigms Arab Spring Bioremediation and Phytoremediation Technologies in Sustainable Soil Management Seeking Solutions The Gulf Directory Sustainable Infrastructure: Breakthroughs in Research and Practice Workforce Strategies Nanocomposites for Pollution Control Human Resources Report Trade & Forfeiting Review Physics Briefs Major Companies of the Arab World, 1995 Journal of the Indian Chemical Society IEEE 2000 First International Symposium on Quality Electronic Design The Fractional Fourier Transform Proceedings of the IEEE 1999 Custom Integrated Circuits Conference Publications du Laboratoire d'analyse numérique Indian Journal of Chemistry Chinese Journal of Geochemistry Dharmendra Kumar Gupta Jan Feyen I. William Zartman Junaid Ahmad Malik Charles Kellogg Mann Management Association, Information Resources Chaudhery Mustansar Hussain G. C. Bricault Indian Chemical Society Haldun M. Ozaktas

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this book focuses on the mechanistic microscopic understanding of radionuclide uptake by plants in contaminated soils and potential use of phytoremediation the key features concern radionuclide toxicity in plants how the radioactive materials are absorbed by plants and how the plants cope with the toxic responses the respective chapters examine soil classification natural plant selection speciation of actinides kinetic modeling and case studies on cesium uptake after radiation accidents radionuclide contaminants pose serious problems for biological systems due to their chemical toxicity and radiological effects the processes by which radionuclides can be incorporated into vegetation can either originate from activity interception by external plant surfaces either directly from the atmosphere or from resuspended material or through uptake of radionuclides via the root system subsequent transfer of toxic elements to the human food chain is a concrete danger therefore the molecular mechanisms and genetic basis of transport into and within plants needs to be understood for two reasons the effectiveness of radionuclide uptake into crop plants so called transfer coefficient is a prerequisite for the calculation of dose due to the food path on the other hand efficient radionuclide transfer into plants can be made use of for decontamination of land so called phytoremediation the direct use of living green plants for in situ removal of pollutants from

the environment or to reduce their concentrations to harmless levels

communication across and integration of disciplines in the urban water sector seems today more imperative than ever before water is a strategic and shrinking resource it is probably the world s most valuable resource and clean water has even been touted as the next oil control of water from access to management has always been a

beginning in january 2011 the arab world exploded in a vibrant demand for dignity liberty and achievable purpose in life rising up against an image and tradition of arrogant corrupt unresponsive authoritarian rule these previously unpublished countryspecific case studies of the uprisings and their still unfolding political aftermaths identify patterns and courses of negotiation and explain why and how they occur the contributors argue that in uprisings like the arab spring negotiation is not just a nice practice or a diplomatic exercise rather it is a dynamically multilevel process involving individuals groups and states with continually shifting priorities and with the prospect of violence always near from that perspective the essaysits analyze a range of issues and events including civil disobedience and strikes mass demonstrations and nonviolent protest and peaceful negotiation and armed rebellion and contextualize their findings within previous struggles both within and outside the middle east the arab countries discussed include algeria bahrain egypt libya morocco syria tunisia and yemen the arab spring uprisings are discussed in the context of rebellions in countries like south africa and serbia while the libyan uprising is also viewed in terms of the negotiations it provoked within nato collectively the essays analyze the challenges of uprisers and emerging governments in building a new state on the ruins of a liberated state the negotiations that lead either to sustainable democracy or sectarian violence and coalition building between former political and military adversaries contributors samir aita monde diplomatique alicia alunni durham university marc anstey nelson mandela university abdelwahab ben hafaiedh merc maarten danckaert european bahraini organization for human rights heba ezzat cairo university amy hamblin sais abdullah hamidaddin king s college fen hampson carleton university roel meijer clingendael karim mezran atlantic council bessma momani waterloo university samiraital pres cercle des economistes arabes aly el raggal cairo university hugh roberts icg tufts university johannes theiss collge d europe sinisa vukovic leiden university i william zartman sais jhu indicates group members of the processes of international negotiation pin program at clingendael netherlands

phytoremediation has evolved into an important tool to improve the bioremediation process since it is an innovative green technology that uses a wide variety of plants to remediate radioactive metals and elements organics and chemicals from soil sediment surface water and groundwater environmental pollutants together bioremediation and phytoremediation technologies provide an effective approach to contaminant abatement volume 3 of the four volume set identifies and draws a fresh image of existing developments in theoretical and functional implementation systems from recent scientific research studies that consider different facets of bioremediation it also discusses the latest technology and prospects of new soil bioremediation technology and analyzes their domains along with their associated challenges and consequences other volumes in the 4 volume set volume 1 fundamental aspects and contaminated sites volume 2 microbial approaches and recent trends volume 4 degradation of pesticides and polychlorinated biphenyls together these four volumes provide in depth coverage of the mechanisms advantages and disadvantages of the bioremediation and phytoremediation technologies for safe and sustainable soil management the diverse topics help to arm biologists agricultural engineers environmental and soil

scientists and chemists with the information and tools they need to address soil toxins that are a dangerous risk to plants wildlife humans and of course the soil itself

the continued growth of any nation depends largely on the development of their built infrastructures and communities by creating stable infrastructures countries can more easily thrive in competitive international markets sustainable infrastructure breakthroughs in research and practice examines sustainable development through the lens of transportation waste management land use planning and governance highlighting a range of topics such as sustainable development transportation planning and regional and urban infrastructure planning this publication is an ideal reference source for engineers planners government officials developers policymakers legislators researchers academicians and graduate level students seeking current research on the latest trends in sustainable infrastructure

nanocomposites present outstanding mechanical properties and compatibility owing to their composite matrix and unique physical and chemical composition provided by large surface area to volume ratios and high interfacial reactivity freedom to functionalize nanocomposites with various chemical groups increases their affinity toward target pollutants which is highly desirable for the selective extraction of target analytes in complex environmental matrixes this book presents the recent progress in the field of nanocomposites and their properties fabrication methods and applications for pollution control and sensing it discusses the advances in pollution control techniques made possible because of nanocomposites and focuses on environment friendly and efficient approaches the text also covers economic toxicological and regulatory issues and research trends

the discovery of the fractional fourier transform by the editors provides an elegant mathematical framework within which to discuss diffraction and other fundamental aspects of optical systems

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