



Darapureddi Krishna

# **Handbook on the Removal of Chromium(VI) from Waste Water**



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# Handbook On The Removal Of Chromiumvi From Waste Water

**M Walker**



## **Handbook On The Removal Of Chromiumvi From Waste Water:**

**Handbook on the Removal of Chromium(VI) from Waste Water** Darapureddi Krishna, 2014-10-27 This book is review on removal of chromium from waste water or aqueous solution using conventional and non conventional adsorbents As we are aware that Chromium has been widely used in various industries like textile leather chemical manufacture metal finishing paint etc The effluents from these industries contain chromium in the form of trivalent chromium Cr 3 and hexavalent chromium Cr 6 The hexavalent chromium is a priority toxic mutagenic and carcinogenic chemical hence it is very much required to remove chromium VI from the industrial effluents before allowing it to enter any water system or on to the land The conventional treatment methods like filtration chemical precipitation membrane process solvent extraction ion exchange etc are used when chromium is present in large quantities and when recovery of chromium is economically feasible The adsorption technique using conventional adsorbents and non conventional adsorbents for the removal of chromium metal is preferred because it is a potential alternative treatment method and an economically viable method especially when chromium is present in minor quantities

### **A Guide to the Economic Removal of Metals from Aqueous Solutions**

Yogesh C. Sharma, 2012-01-10 Provides public health sanitary and water engineers baseline data for designing plants for the treatment of industrial effluents rich in the metallic species in general and that of nickel and chromium in particular

**Description**Water pollution is a topic of immense and common concern throughout the world With a rapidly escalating global population and increased industrial development in a growing number of countries the world s freshwater resources have become stressed One way to get more out of less is treatment and reuse Nickel and chromium are toxic metals and they are used extensively in numerous industries such as textiles beverages steel pulp and paper and electroplating Their industrial effluent contains large measures of non biodegradable traces that are harmful to flora fauna and human beings Although there are a number of methodologies used for treatment of metal containing industrial effluents and waste water there is not one up to now that offers a high capacity removal rate at an economical cost This book presents the results and data from research and adsorption experiments carried out on the removal of nickel and chromium as well as other metals from aqueous solutions using modified silica sand The data resulting from detailed kinetic equilibrium and thermodynamic studies show that the removal capacity is increased so the treated water has a higher quality or purity It also demonstrates that the extraction of metals is achieved at a significant lower cost because the treated water adsorption is a simple process with less maintenance and because silica is a nontoxic natural material widely available in all parts of the world

*Handbook of Industrial and Hazardous Wastes Treatment* Lawrence K. Wang, Yung-Tse Hung, Howard H. Lo, Constantine

Yapijakis, 2004-06-29 Presenting effective practicable strategies modeled from ultramodern technologies and framed by the critical insights of 78 field experts this vastly expanded Second Edition offers 32 chapters of industry and waste specific analyses and treatment methods for industrial and hazardous waste materials from explosive wastes to landfill leachate to w

*Environmental Engineering and Computer Application* Kennis Chan, 2015-07-27 The awareness of environment protection is a great achievement of humans an expression of self awareness Even though the idea of living while protecting the environment is not new it has never been so widely and deeply practiced by any nations in history like it is today From the late 90s in the last century the surprisingly fast dev

**Nanotechnology: A Quick Guide to Materials and Technologies** Divya Bajpai Tripathy, Anjali Gupta, Arvind Kumar Jain, Anuradha Mishra, Tokeer Ahmad, 2024-10-07 Nanotechnology A Quick Guide to Materials and Technologies invites readers to explore the cutting edge world of nanotechnology offering a comprehensive yet accessible introduction to this rapidly evolving field The content provides a foundation for understanding the field and details the properties of significant nanomaterials Readers will also gain insights into innovative processes while receiving a balanced perspective on the social and regulatory aspects of nanotechnology Key Features Foundational Knowledge Begins with an overview of nanotechnology its history and its key concepts Diverse Nanomaterials Explores various types of nanomaterials including nanoparticles nanowires and carbon based materials like graphene detailing their properties and potential applications Advanced Applications Explores the real world uses of nanotechnology across multiple sectors such as medicine electronics energy and environmental science demonstrating its transformative impact Fabrication and Characterization Covers techniques for creating and analyzing nanomaterials offering insights into the processes that drive innovation in the field Ethical and Societal Considerations Discusses the broader implications of nanotechnology including ethical societal and regulatory aspects Ideal for students educators researchers and industry professionals this guide serves as an informative resource for anyone looking to deepen their understanding of nanotechnology

**Handbook of Textile Effluent Remediation** Mohd Yusuf, 2018-07-11 Nowadays textile units utilize a number of dyes chemicals reagents and solvents to impart the desired quality to fabrics and generate a substantial quantity of effluents contaminants which cause severe environmental problems if disposed of without proper treatment In view of several surveys carried out through research papers books technical articles and general reports published in high reputed academic societies Handbook of Textile Effluent Remediation provides a detailed narration of the acceptable methods of treating textile wastewater such as active ozonation membrane filtration and adsorption The book discusses emerging and suitable treatment systems that are viable efficient and economical In this context it provides an array of several traditional as well as advanced treatment practices for textile effluents It covers research oriented descriptions of textile wastewater treatment that can be adopted by scientific communities academicians and undergraduate and postgraduate students of industrial engineering materials science and engineering physics and chemistry It offers several interesting methodologies and aspects of current dimensional research through user friendly content tables and figures and provides up to date literature on important and useful information for textile effluents their impact on the environment and advanced remediation processes Needless to say this book is of immense use to global researchers academicians and consultants engaged in various streams of wastewater

treatment science      **Agricultural and Environmental Nanotechnology** Fabian Fernandez-Luqueno, Jayanta Kumar Patra, 2023-01-05 This book highlights the best practices regarding nanoscience and nanotechnology for agriculture and environmental sectors to shape sustainable development thought to improve the quality and quantity of the agriculture products and to decrease the collateral effect of nanotechnology in the ecosystems Besides leading nanotechnologies are showed and discussed to guarantee their proper management in lands and ecosystems Therefore nanotechnologies such as agronanobiotechnology nanofertilization pest control magnetofection for plant breeding plant molecular farming OMICs technologies phytonanotechnology nanoremediation etc are described in five sections and 21 chapters Undoubtedly it is an ideal and updated book for undergraduate or postgraduate students and scientists or researchers involved in nanoscience nanotechnology crop production and remediation technologies as well as for those researchers that solving technical problems regarding the crop management and the human and environmental health without hampering the pursuit of sustainable development goals      **Cost Effective Technologies for Solid Waste and Wastewater Treatment** Srujana Kathi, Suja Devipriya, Kaliannan Thamaraiselvi, 2021-11-03 Cost Effective Technologies for Solid Waste and Wastewater Treatment synthesizes methods case studies and analyses of various state of the art techniques for removing contaminants from wastewater solid waste or sewage and converting or reusing the waste with minimum impact on the environment Focusing on innovative treatment strategies as well as recent modifications to conventional processes the book covers methods for a complex variety of emerging pollutants including organic matter chemicals and micropollutants resulting from developmental and industrial activities Serving as a practical guide to state of the art methods Cost Effective Technologies for Solid Waste and Wastewater Treatment also delivers offers foundational information on the practical design of treatment and reuse systems and explains the treatments in terms of scale efficiency and effectiveness It focuses on cost effective technologies that are particularly applicable to environmental clean up such as bioaugmentation and biostimulation of plastics activated carbon phytoremediation crude oil pollution stress adsorbents contaminants of emerging concern anaerobic digestion ISCO biosorption bioremediation radioactive contaminants constructed wetlands nanoremediation and rainwater As such it is a valuable and practical resource for researchers students and managers in the fields of environmental science and engineering as well as wastewater management chemical engineering and biotechnology Presents low cost treatment technologies for both solid waste and wastewater Analyzes the efficiency and effectiveness of state of the art technologies Includes methods and case studies for practical application      Wastewater Engineering: Advanced Wastewater Treatment Systems Hamidi Abdul Aziz, Amin Mojiri, 2014-04-01 As the global population grows and many developing countries modernize the importance of water supply and wastewater treatment becomes a much greater factor in the welfare of nations Clearly in today s world the competition for water resources coupled with the unfortunate commingling of wastewater discharges with freshwater supplies creates additional pressure on treatment systems Recently researchers

focus on wastewater treatment by difference methods with minimal cost and maximum efficiency This volume of the Wastewater Engineering Advanced Wastewater Treatment Systems is a selection of topics related to physical chemical and biological processes with an emphasis on their industrial applications It gives an overview of various aspects in wastewater treatments methods including topics such as biological bioremediation electrochemical membrane and physical chemical applications Experts in the area of environmental sciences from diverse institutions worldwide have contributed to this book which should prove to be useful to students teachers and researchers in the disciplines of wastewater engineering chemical engineering environmental engineering and biotechnology We gratefully acknowledge the cooperation and support of all the contributing authors

**The Biosphere, Problems and Solutions** ,2011-09-22 The Biosphere Problems and Solutions

Bioremediation of Toxic Metal(loid)s Anju Malik,Mohd. Kashif Kidwai,Vinod Kumar Garg,2022-11-30 The book Bioremediation of Toxic Metal loid s describes the state of the art and potential of emerging technologies on bioremediation of toxic metal loid s It has a compilation of the available comprehensive knowledge of the fundamentals and advancements in the field of bioremediation of toxic metal loid s The mechanisms applications and current advancements of various bioremediation strategies used for metal loid s have been described in 21 chapters contributed by leading experts from different institutes universities and research laboratories from various countries across the globe including Argentina Canada Chile Colombia France India Japan Republic of Korea the United Kingdom and the United States of America This book offers a bird s eye view on various bioremediation technologies based on a variety of biological agents viz plants bacteria algae fungi etc used for environmental clean up of toxic metal loid s

Handbook of Research on Waste Diversion and Minimization Technologies for the Industrial Sector Rathoure, Ashok K.,2021-01-08 Due to various issues in the world including rapid urbanization and industrial processes waste generation has reached levels that are becoming detrimental to the environment and the global population Waste management has remained a challenging issue for many professional sectors as it is directly linked to an organization s performance however the implementation of efficient and cost effective waste minimization plans is the first step in improving the global environment Innovative technologies in waste management are emerging and can help professionals looking to implement more efficient methods of pollution control The Handbook of Research on Waste Diversion and Minimization Technologies for the Industrial Sector is a pivotal reference source that provides vital research on the application of modern pollution control methodologies in industrialized environments While highlighting topics such as life cycle assessment bioremediation and thermal waste treatment this publication explores environmental risk reduction scenarios as well as sustainable waste collecting solutions This book is ideally designed for researchers industrialists environmentalists practitioners policymakers scientists students and academicians seeking current research on innovative advancements in waste minimization techniques

**Recent Advances in Civil Engineering**

Krishna R. Reddy,P. T. Ravichandran,R. Ayothiraman,Anil Joseph,2024-01-30 This book presents the select proceedings of

International Conference on Civil Engineering Innovative Development in Engineering Advances ICC IDEA 2023 This book covers the latest research in the areas of geotechnical engineering geomatics geosciences remote sensing geographical information systems surveying and geo spatial engineering environmental engineering and many more The book is useful for researchers and professionals in civil engineering

*Technical feasibility study on the chromium recovery from electroplating effluents* Daniel Wiemken, 2014-04-11

Inhaltsangabe Introduction Rapid industrialisation and growth in population over the past two hundred years exert an increasing pressure on natural resources and the environment Billions of tons of controlled and scheduled waste are generated every year by the industrial sector worldwide which is often either pre treated on site or at a licensed contractor prior to disposal in landfills This practice if continued is leading to resource depletion and creates a potentially harmful legacy for future generations In order to move towards a more sustainable development as outlined in the Bruntland Report waste reduction reuse and recycling coupled with pollution prevention measures play an important part to slow down if not reverse this practice Heavy metals such as cadmium mercury lead and chromium are not degradable or renewable like biomass hence if they are to be used in future processes reuse and recycling are the only options At present heavy metals are used in the chemical industry sector for applications ranging from batteries to catalysts and surface coatings and can be found at various concentrations in gaseous liquid or solid waste Chromium is of particular interest owing to its legislative status and unique chemistry Chromium exists in nature primarily in one of two oxidation states There are other chemical oxidation states of chromium which include 0 II IV and V but they are considered transitory compared to more stable Cr III and Cr VI species Hexavalent chromium is a strong oxidizer which can react with DNA causing mutation while the trivalent organically complex form is a dietary supplement to help with proper glucose metabolism weight loss and muscle tone Unlike many other metals Cr VI can combine with oxygen to form water soluble negatively charged anions known as yellow chromate  $\text{CrO}_4^{2-}$  or orange dichromate  $\text{Cr}_2\text{O}_7^{2-}$  which adsorb to positively charged sites in contrast to cationic metal species Therefore hexavalent chromium species are not strongly bonded in many soils under alkaline to slightly acidic conditions for example Thus they can be very mobile in subsurface environment while other metals precipitated out and exert toxic effects on biological systems Various well established methods may be used to treat industrial effluents and contaminated water such as reduction and precipitation reverse osmosis evaporation ion exchange and adsorption While these processes are able to remove

Handbook of Advanced Approaches Towards Pollution Prevention and Control Rehab O Abdel Rahman, Chaudhery Mustansar Hussain, 2021-02-02

Handbook of Advanced Approaches towards Pollution Prevention and Control Volume One Conventional and Innovative Technology and Assessment Techniques for Pollution Prevention and Control condenses all relevant information on pollution prevention and control in a single source This handbook Volume One of Two covers the principles of pollution prevention and control technologies recent advances in pollution prevention control technologies and their sustainability modernization in pollution prevention and

control technologies for future and next generation pollution prevention This book is an indispensable resource for researchers and academic staff in chemical and process engineering safety engineering environmental engineering biotechnology and materials engineering Provides in depth information on the principles and advances in pollution prevention and control practices Discusses emerging technologies and processes for advanced pollution prevention and control Presents developments on the use of the assessment models as tools to support the research and applications of different technologies and processes Provides history fundamentals state of the art and future trends Edited by expert team of world class editors

**Selected Water Resources Abstracts**, 1991 *Handbook of Advanced Industrial and Hazardous Wastes Management* Lawrence K. Wang, Mu-Hao S. Wang, Yung-Tse Hung, Nazih K. Shammass, Jiaping Paul Chen, 2017-10-30 This volume provides in depth coverage of environmental pollution sources waste characteristics control technologies management strategies facility innovations process alternatives costs case histories effluent standards and future trends in waste treatment processes It delineates methodologies technologies and the regional and global effects of important pollution control practices It focuses on specific industrial and manufacturing wastes and their remediation Topics include heavy metals electronics chemical and textile manufacturing

**Advances in Biological Treatment of Industrial Waste Water and their Recycling for a Sustainable Future** Ram Lakhan Singh, Rajat Pratap Singh, 2018-10-12 With rampant industrialization the management of waste generated by various industries is becoming a mammoth problem Wastewater discharges from industrial and commercial sources may contain pollutants at levels that could affect the quality of receiving waters or interfere with potable water supplies Thousands of small and large scale industrial units dump their waste which is often toxic and hazardous in open spaces and nearby water sources Over the last three decades many cases of serious and permanent damage to the environment and human health on the part of these industries have come to the fore This book mainly focuses on the biological treatment of wastewater from various industries and provides detailed information on the sources and characteristics of this wastewater followed by descriptions of the biological methods used to treat them Individual chapters address the treatment of wastewater from pulp and paper mills tanneries distilleries sugar mills the dairy industry wine industry textile industry pharmaceutical industry food processing industry oil refinery petroleum industry fertilizer industry and beverage soft drink bottling industry and include the characteristics of wastewater evaluation of biological treatment methods and recycling of wastewater Easy to follow with simple explanations and a good framework for understanding the complex nature of biological wastewater treatment processes the book will be instrumental to quickly understanding various aspects of the biological treatment of industrial wastewater It will serve as a valuable reference book for scientists researchers educators and engineers alike

**Environmental Toxicology** Pankaj Gupta, Amit Chanjta, Yogesh Mehta, 2023-12-01 Eco toxicology an offshoot of toxicology is a multidisciplinary science that integrates toxicology and ecology by drawing knowledge and procedures from both fields It analyses the effects of toxic chemicals or biological agents



on living organisms at different levels of organization Eco toxicology classifies different contaminants their characteristics release and ecological fate and predicts their effects so that timely action can be taken to prevent or minimize any detrimental effects Environmental Toxicology starts with the basics of toxicology briefly touching on the sources of toxic compounds classification of toxicants and factors affecting toxicity and then elaborates on heavy metal toxicity The individual chapters on various heavy metals and radioactive metals discuss the sources and routes of exposure aetiology pathophysiology clinical manifestations and mechanisms of toxicity toxicological effects diagnosis treatment management and ecological impact The book covers the field in its greatest width and provides an insight into pesticide and radiation toxicity and recent advances in eco toxicology with special focus on the removal of HMs and the latest bioremediation techniques This book serves as a reference work for advanced students pursuing degrees in environmental toxicology and across various disciplines such as biomedical and environmental sciences toxicology eco toxicology pharmacology public health etc and all interested in learning the concepts of eco toxicology Features A systematic overview of the key concepts of eco toxicology its relationship with other disciplines and recent advances in the area Detailed classification of toxicants types of toxicity and mechanism of the action of toxicants An in depth coverage of topics on the mechanism toxicity of HMs in addition to exclusive sections on pesticide and radiation toxicity A fact file in each chapter highlighting its key points Flow charts tables diagrams and illustrations in easily understandable language

**New Polymer Nanocomposites for Environmental Remediation** Chaudhery Mustansar Hussain, Ajay Kumar Mishra, 2018-02-19 New Polymer Nanocomposites for Environmental Remediation summarizes recent progress in the development of materials properties fabrication methods and their applications for treatment of contaminants pollutant sensing and detection This book presents current research into how polymer nanocomposites can be used in environmental remediation detailing major environmental issues and key materials properties and existing polymers or nanomaterials that can solve these issues The book covers the fundamental molecular structure of polymers used in environmental applications the toxicology economy and life cycle analysis of polymer nanocomposites and an analysis of potential future applications of these materials Recent research and development in polymer nanocomposites has inspired the progress and use of novel and cost effective environmental applications Presents critical actionable guidelines to the structure and property design of nanocomposites in environmental remediation Focuses on taking technology out of the lab and into the real world Summarizes the latest developments in polymer nanocomposites and their applications in catalytic degradation adsorptive removal and detection of contaminants in the environment Enables researchers to stay ahead of the curve with a full discussion of regulatory issues and potential new applications and materials in this area

Uncover the mysteries within is enigmatic creation, Embark on a Mystery with **Handbook On The Removal Of Chromiumvi From Waste Water** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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