

## **“Physicochemical Analysis of Water from Various Sources and Their Comparative Studies”**

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**Abstract:** Water is one of the most important of all natural resources known on earth. It is important to all living organisms, most ecological systems, human health, food production and economic development. The safety of drinking water is important for the health. The safety of drinking water is affected by various contaminants which included chemical and microbiological. Such contaminants cause serious health problems.

Due to these contaminants quality of the Drinking Water becomes poor. Sometimes such poor quality water causes many diseases in the humans so that quality of the water must be tested for both the chemical as well as for the microbial contaminants. During the study it was found that maximum number of physical and chemical parameter were within the desirable limit, as suggested by WHO (1971) and BIS (1991).

The objective of the present research is to provide information on the physicochemical characteristics & detailed ecological studies of Potable water and Lake water (Habitat) in order to discuss it's suitability for human consumption. Physicochemical and bio-chemical aspects of the water have been investigated to assess the quality of water. The variations of the physicochemical properties of water samples directly influence the biotic communities and primary productivity of the water bodies at different areas of Ahmedabad.

**Keywords:** Potable water and Lake water, Ahmedabad, Physico-chemical and Investigation, ecological studies, Comparative studies.

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### **I. Introduction**

Water is one of the most important of all natural resources known on earth. It is important to all living organisms, ecological systems, human health, food production and economic development. The safety of drinking water is important for the health. The safety of drinking water is affected by various contaminants which included chemical and microbiological. Such contaminants cause serious health problems. Due to these contaminants quality of drinking water becomes poor. Sometimes such poor quality water causes many diseases in the humans, so that quality of water must be tested for both the chemical as well as for the microbial contaminants.

The 5 major Application of water are Hydropower, Domestic uses, Irrigation, Industrial uses, Commercial uses. The major water quality parameters considered for the examination in this study are pH, Odour, Colour, Taste, Temperature, Turbidity, Total Dissolved Solids (TDS), Dissolved oxygen (DO), Dissolved carbon dioxide, Metals and Metalloids, Total Hardness, Alkalinity.

#### **1.2 Sample Collection:**

- Potable water sample was collected from five different areas of Ahmedabad: Processed water (Water Plant, S.G. Highway), Thaltej, Navrangpura, Naroda and Shahibaug.
- Habited water sample was collected from four different lakes of Ahmedabad: Kankariya Lake, Malav Lake, Vastrapur Lake, Chandola Lake of Ahmedabad and physicochemical analysis of habited water has performed.

### **II. Material and Methods**

The present study was carried out for five different areas and four different lakes, located in Ahmedabad city. In the present study the sampling was done during morning hours and all water samples were collected in the polyethylene bottles. For lake water sample collection the closed bottle was dipped in the lake at the depth of 0.7 to 0.9 m, and then a bottle was opened inside and was closed again to bring it out at the surface.

The samples were collected from three different points and were mixed together to prepare an integrated sample. From the time of sample collection and to the time of actual analysis, many physical and chemical reactions would change the quality of water sample therefore to minimize this change the sample were preserved soon after the collection. The water samples were preserved by adding chemical preservatives and by lowering the temperature. The water temperature, Odour, Taste, TDS were analyzed immediately on the spot after the collection, Whereas the analyses of remaining parameters were done in the laboratory. The study was carried for a period of four months (January 2012 to April 2012). The collected water samples were brought to the laboratory and relevant analysis was performed. pH was determined using pH meter, and similarly turbidity is

# Physicochemical Analysis Of Water From Various Sources

**C. R. Krishna Murti**



## **Physicochemical Analysis Of Water From Various Sources:**

**Water Quality** Daniel Dunea, 2022-02-02 This book provides a comprehensive overview of the factors and impacts influencing water quality in various locations worldwide. It discusses the use of new analytical and monitoring methods and novel technologies for decontamination and protection of polluted waters. It includes three sections that discuss monitoring and assessment of water quality factors of water quality degradation and methods for water quality improvement. Water quality is a global environmental concern affecting the socioeconomic development and functionality of various ecosystems. The protection of water quality requires adequate monitoring and assessment methods included in reliable watershed management plans.

**Water Crises and Sustainable Management in the Global South** Sylvester Chibueze Izah, Matthew Chidozie Ogwu, Athanasios Loukas, Hossein Hamidifar, 2024 Zusammenfassung This book is a reference material on how to sustainably manage water crises. The causes and effects of water crises under different regions in the Global South are explored in this book. Approaches for the sustainable management of water crises are also highlighted in the book, especially in the Global South where the level of technologies available for sustainable management of water are limited. Water crisis is a global problem but with disproportionate higher consequences in the Global South. About 25% of the global population resides in water stressed countries and about 10% of the world population lives in areas with high water vulnerability. Furthermore, many millions of people across the globe lack access to potable water supplies. As such, many people could be displaced by water crises or scarcity shortly. The effects of the water crisis on the environment include increased salinity, nutrient pollution, the loss of floodplains, the drying of riverbeds, the loss of habitat, wetlands disappearing, and ecosystem loss. On the human level, it could lead to disease outbreaks, drought, famine, and death. This may have more severe effects in countries in the Global South as compared to nations in the Global North. This is because the water cycle is very intense in Asia and Africa, which are important areas in the Global South. This book is of interest and useful to aquatic toxicologists, water quality experts, practitioners, trainees, and trainers, environmentalists, biological sciences scientists, academics, researchers, students, especially undergraduates and postgraduates, libraries, and other public knowledge repositories interested in novel and advanced practices in sustainable water management.

*Water Resources Research Catalog*, 1966

*From Traditional to Modern African Water Management* Chrispin Kowenje, Andreas Haarstrick, Timothy Biswick, Gideon Ajeagah, Stephen Ojwach, Oluwatoyin A. Odeku, Gnon Baba, 2022-10-14 This book preserves and scientifically interprets the African foreknowledge on water resources management. It offers insight into the relevance of the traditional knowledge and practices to modern approaches on sustainable water management. The African continent has partially preserved its natural habitat for centuries. In this book, this knowledge is combined with the current scientific understanding. The traditional practices are categorized as i) water harvesting, ii) water transportation, iii) water storage and conservation, iv) water treatments, v) myths and folk stories about water management or conservation, vi) water resource management systems.

and vii soil water forest conservation management systems sub topics The findings presented here are in line with SDG 6 which aims at ensuring availability and sustainable management of water and sanitation for all by the year 2030 *Climate Change Impact on Groundwater Resources* Balamurugan Panneerselvam, Chaitanya Baliram Pande, Kirubakaran Muniraj, Anand Balasubramanian, Nagavinothini Ravichandran, 2022-08-24 This volume discusses climate change impacts on groundwater quality in arid and semi arid regions and provides human health risk assessments due to pollution of surface and groundwater The book presents recent trends in monitoring groundwater management and implementing pollution mitigation strategies including practices involving remote sensing and GIS techniques entropy water quality index weighted arithmetic water quality index fuzzy logic applications and improved irrigation methods The book also outlines hydrological processes in arid and semi arid regions and hydrochemical properties of surface and groundwater as a necessary background for understanding how pollution impacts groundwater quality and resources and how geographical modeling of hydrological processes can aid in human health risk assessments The book is intended for academics administrators policymakers social scientists and professionals involved in the various aspects of climate change impact on groundwater quality hydrological process pollution mitigation strategies sustainable development and environmental planning and management

Limnological study of Fresh water body Bhandarwadi Reservoir Dr. Bondage Shivraj Dattoba, 2021-10-20 This book is mentioned the physico chemical parameter with biological zoo and phyto plankton Which is informative data to related consumers which are industry irrigation and domestic drinking water This limnological study is helpful to above water consumers with helpful to other limnological researchers **Selected Water Resources Abstracts**, 1991 Water security and sustainable development in an uncertain world Miguel R. Peña, C. T. Dhanya, Richard J. Dawson, Ashvani Gosain, Zulkifli Yusop, 2023-10-05 *Microalgae as Promising Source of Commercial Bioproducts* David Ulises Santos Ballardo, Sergio Rossi, 2025-06-06 This book contains a wide compendium of information which includes algal culture basics and the newest scientific and industrial advances in microalgal applications including traditional uses such as renewable energy biofuels wastewater treatment edible products aquaculture and livestock production It also presents emerging perspectives of microalgae valorization for example health cosmetic products biofertilizers bioplastics vaccine delivery systems nanotechnology and enzymes bio factories Moreover this book provides a comprehensive overview for those readers that are initiating the study about microalgae potential as a renewable source of valuable commercial products and highlights the state of the art on the innovative advances for scientific researchers students and microalgae commercial producers which already focused in developing microalgae biotechnology for bioenergy food and other applications Also the role of microalgae technology in the blue economy is analyzed an aspect with high relevance in the present and the future time but which is regularly understudied **The Ganga, a Scientific Study** C. R. Krishna Murti, 1991 The book Ganga A Scientific Study is based on an Integrated Research Programme carried out by 14 Universities located in the Ganga Basin

sponsored and funded by the Environment Research Committee and The Ganga Project Directorate Ministry of Environment Forests Government of India New Delhi The Ganga one of World's major rivers has been venerated as the holiest and is bound with countless beliefs and faiths especially in India and adjacent countries Its water has traditionally been regarded as an inexhaustible gift of nature Recent experiences do not however warrant such a complacency The water resources are strained to a non sustainable level due to rapid population explosion urbanisation development of agriculture industry livestock and power production in the Ganga basin The hydrobiological quality of water has deteriorated and yet no concise valid supporting evidence was available in a comprehensive manner covering the entire river This book is an attempt towards this direction For the first time a picture of the Ganga is available with its physico chemical and biological characteristics the severe pollution stress and causes to which its water is subjected to the contents and quality of water and possible remedial measures An account of algae including pollution sensitive and tolerant species besides bio indicators is available A possible modelling exercise has also been included A microbiological assay and the bacteria present in the river water is also given This book in short is a synthesis of what the Ganga is at present in respect of its hydrobiology pollution load and some aspects of hydrology

**Advancing Sustainable Science and Technology for a Resilient Future** Sai Kiran

Oruganti, Dimitrios A Karras, Srinesh Singh Thakur, 2024-07-01 The Industrial Internet of Things IIoT has become an effective tool with significant implications for industrialisation and Market Research MR especially in the field of green production Green IIoT GRIIoT can be used to implement Green Production GP goals for the environment The purpose of this study is to examine the drivers behind the adoption of GIIoT MR and industrialization decision making as well as the effects these drivers have on industrialization performance IP A structured questionnaire was used to gather information in order to evaluate the suggested study paradigm The results indicate that institutional isomorphism influences the acceptance of GRIIoT in a favorable way Furthermore Green innovation GI activities that result in IP are favorably correlated with GIIoT The potential effects of the various institutional isomorphisms discussed in this study can aid organizations in better understanding the responsibilities to protect and satisfying stakeholders particularly as the adopt GIIoT to handle production problems and possible accordance pressures in the process

*Sustainability of Natural Resources* Rohitashw Kumar, Kanak

N. Moharir, Vijay P. Singh, Chaitanya B. Pande, Abhay M. Varade, 2024-06-28 Agriculture is the backbone of the economy in most countries and its output can be impacted by climate change effects India as well as other countries which are predominantly agricultural are facing various challenges due to increasing population which can be met by technological innovations for sustainable agriculture Advanced and innovative technologies in agriculture will not only solve the problems of fulfilling the food requirement of the growing population but also sustain agriculture in the future Sustainability of Natural Resources Planning and Management addresses the advancement of innovative techniques to address the issues of water scarcity and agricultural yield It discusses various aspects of natural resource management agriculture micro irrigation AI

applications for water management and impacts of climate change on water resources This book also deals water resource exploration planning recent geographic information system based studies groundwater modelling and related applications It highlights the optimal strategies for sustainable water resource management and development It also examines precision farming using remote sensing and GIS techniques *From Sources to Solution* A.Z. Aris,T.H. Tengku Ismail,R. Harun,A.M. Abdullah,M.Y. Ishak,2013-11-01 Featuring the theme From Sources to Solution this book is based on the research papers presented during the International Conference on Environmental Forensics 2013 It covers multi disciplinary areas of environmental forensics featuring major themes characterization assessment and monitoring new approach rapid assessment and analytical techniques pollution control technology environmental health risk assessment and policy governance and management It present information for researchers from the science and social sciences disciplines and contribute to the advancement of Environmental Forensics It also aims at evaluating the environmental damages as the result of indiscriminating discharge of toxic environmental pollutants Water Quality Instructional Resources Information System (IRIS) ,1979 **Algal Biotechnology** Nivedita Sahu,S. Sridhar,2024-08-30 This book initiates with a general introduction to microalgae and algal biotechnology with subsequent discussions on all the significant aspects of applied biotechnology bioremediation nano applications multidimensional usages of algae as a biofertilizer and a source of bioactive compounds and phytochemicals Major themes of the book include algae and the environment bioremediation using algae algal omics and applications and large scale bioprocesses for algal cultivation its constraints and challenges Features Focusses on the importance of algae for a sustainable environment Covers algal bioplastics and other commercial products Explores possible utilization of algae in phyco bioremediation Reviews algae as a biostimulant and biofertilizer Demonstrates challenges during algal cultivation on a large scale This book is aimed at graduate students and researchers in biotechnology bioenergy renewable energy energy bioremediation fuel and petrochemicals wastewater novel technologies clean technologies bioremediation environmental functional foods and nutraceuticals marine and aquatic science Eutrophication of Shallow Lakes with Special Reference to Lake Taihu, China B. Qin,Z. Liu,K. Havens,2007-12-03 This volume features papers presented at the International Symposium on the Eutrophication Process and Control in Large Shallow Lakes with Special Reference to Lake Taihu held in Nanjing China in April 2005 Coverage includes physical processes and their effects on shallow lake ecosystems biogeochemistry of sediments and nutrient cycling in shallow lakes and algal blooms and ecosystem response in shallow lakes *Microbial Ecotoxicology Advances to Improve Environmental and Human Health Under Global Change* Fabrice Martin-Laurent,Aurélie Cebon,Mechthild Schmitt-Jansen,Dimitrios Georgios Karpouzas,Soizic Morin,Carmen Palacios,2022-04-18 **Interactions between groundwater and human communities: Perspectives on the resources, environments, threats and sustainable development** Yong Xiao,Venkatramanan Senapathi,Lichun Wang,Chengcheng Li,Haiyan Liu,2023-06-22 **Proceedings of the 8th International Conference of Food, Agriculture**

**and Natural Resources & the 2nd International Conference of Sustainable Industrial Agriculture**

**(IC-FANRes-IC-SIA 2023)** Ali Wafa, Mohammad Rondhi, Yuli Witono, Yosuhiko Mori, Shinjiro Ogita, 2024-07-12 This is an open access book Innovation Technology and Natural Resources Management on Industrial Agriculture to Accelerate SDGs Achievement     **Alternative Protein Source For A Sustainable And Healthy Nutrition** Carla Cavallo, Kathleen L.

Hefferon, 2024-08-01 Global socioeconomic systems and climate change exacerbate disparities that leave a huge proportion of the human population malnourished This condition will be further worsened by intensive food production like livestock that produces affordable protein but contribute to increasing greenhouse gases making conventional food sources such as animal livestock unsustainable at global scales in a vicious cycle Thus food systems have come under pressure to meet global food demands whilst having to meet economic and ecological targets

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## **Table of Contents Physicochemical Analysis Of Water From Various Sources**

1. Understanding the eBook Physicochemical Analysis Of Water From Various Sources
  - The Rise of Digital Reading Physicochemical Analysis Of Water From Various Sources
  - Advantages of eBooks Over Traditional Books
2. Identifying Physicochemical Analysis Of Water From Various Sources
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physicochemical Analysis Of Water From Various Sources
  - User-Friendly Interface



4. Exploring eBook Recommendations from Physicochemical Analysis Of Water From Various Sources
  - Personalized Recommendations
  - Physicochemical Analysis Of Water From Various Sources User Reviews and Ratings
  - Physicochemical Analysis Of Water From Various Sources and Bestseller Lists
5. Accessing Physicochemical Analysis Of Water From Various Sources Free and Paid eBooks
  - Physicochemical Analysis Of Water From Various Sources Public Domain eBooks
  - Physicochemical Analysis Of Water From Various Sources eBook Subscription Services
  - Physicochemical Analysis Of Water From Various Sources Budget-Friendly Options
6. Navigating Physicochemical Analysis Of Water From Various Sources eBook Formats
  - ePub, PDF, MOBI, and More
  - Physicochemical Analysis Of Water From Various Sources Compatibility with Devices
  - Physicochemical Analysis Of Water From Various Sources Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physicochemical Analysis Of Water From Various Sources
  - Highlighting and Note-Taking Physicochemical Analysis Of Water From Various Sources
  - Interactive Elements Physicochemical Analysis Of Water From Various Sources
8. Staying Engaged with Physicochemical Analysis Of Water From Various Sources
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physicochemical Analysis Of Water From Various Sources
9. Balancing eBooks and Physical Books Physicochemical Analysis Of Water From Various Sources
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physicochemical Analysis Of Water From Various Sources
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physicochemical Analysis Of Water From Various Sources
  - Setting Reading Goals Physicochemical Analysis Of Water From Various Sources
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Physicochemical Analysis Of Water From Various Sources
  - Fact-Checking eBook Content of Physicochemical Analysis Of Water From Various Sources
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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