About the Book

The book propose to address: 1 the extent to which the reductive dissolution of as-bearing fe (III) oxides hypothesis is applicable. 2. The sustainable of the deeper aquifer system (s) as an alternate arsenic-free water source. 3. The vertical connectivity between the shallow and deeper aquifer systems(s) and the lateral heterogeneity of aquitards/semi-confining layers. 4. The type of groundwater extraction strategies required to maintain the sustainability of the deeper aquifer system and institutional approach to address and mitigate

Contents:

Role of Fluvial Geomorphology and sedimentlogy in Arsenic Distribution

1. Hydro geochemical Evolution in the different shallow aquifers of central gangetic plain and kosi alluvial fan and their implications for the distribution of groundwater arsenic

2. Assessment of subsurface lithology by resistivity survey coupled with hydrochemical study to identify arsenic distribution pattern in central gangetic plain: A case study of Bhagalpur district Bihar India

3. Arsenic contamination in groundwater in the middle genetic plain, india: its relations to fluvial geomorphology and quaternary stratigraphy

Groundwater Arsenic Characterizations and Risk Assessments

- 1. Preliminary Assessment of arsenic distribution in Brahmaputra river basin of india based on examination of 56,180 public groundwater wells
- 2. Problem, perspective and challenges of arsenic contamination in the groundwater of Brahmaputra flood plains and Barak valley regions of Assam, India

- 3. Arsenic contamination of groundwater in Barak valley, Assam India
- 4. Hydro geochemistry and arsenic distribution in the Gorakhpur district in the middle genetic plain India
- Arsenic hydrogeochemistry and process
 - 1. Arsenic distribution and mobilization
 - 2. Understanding hydrogeochemical process governing arsenic contamination and seasonal variation in the groundwater of Bexar district, India
 - 3. Chemical characteristics of arsenic conterminal ground water in part of middle –Gangetic plain (MGP) in Bihar India
 - 4. An insight into the spatio-vertical heterogeneity of dissolved arsenic in part of the Bengal Delta plain Aquifer in West Bengal
 - 5. Surface Generated Organic matter: An Important Driver for arsenic Mobilization in Bengal Delta Plain
 - 6. A comparative study on the Arsenic Levels in groundwater of Gangetic Alluvium and coastal aquifers in India
 - 7.
- Arsenic in food chain, Health and its remediation
 - 1. Groundwater arsenic contamination in Bengal Delta and its Health effects
 - 2. Impact of arsenic contaminated Irrigation water on some edible crops in the fluvial plains Bihar