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Nota di contenuto	Chapter 1. Introduction to Virus Outbreaks -- Chapter 2. A Review of Pandemics -- Chapter 3. Bio-Diversity, Ecosystem-Health and Their Relation with Pandemic -- Chapter 4. COVID 19 Threat and the Role of Human and Natural Factors -- Chapter 5. Impact of Pandemics -- Chapter 6. Global Governance of COVID-19: Decline of Public Sphere and Transnational Democracy -- Chapter 7. Psychological Impacts of COVID-19 -- Chapter 8. Environment Impact Assessment of COVID-19 -- Chapter 9. Impact of COVID in Agriculture -- Chapter 10. Impacts of COVID-19 on Air Pollution -- Chapter 11. Economic Impact of Covid-19 and Challenges of Recovery -- Chapter 12. Impact of COVID-19 on Agro-Food Industry and Transitions Towards Food Security -- Chapter 13. Impact of COVID19 on MSME in Water Sector -- Chapter 14. Transportation and a Pandemic: A Case Study of COVID-19 Pandemic -- Chapter 15. Integrated Risk of Virus Outbreaks -- Chapter 16. Understanding Public Health Interventions: Isolation, Quarantine, Social Distancing -- Chapter 17. Technological Advancement and Pandemic

-- Chapter 18. Application of Nanotechnology in Detection and Prevention of COVID-19 -- Chapter 19. Resilience of Healthcare System to Outbreaks -- Chapter 20. Resilience of Water Bodies to Outbreaks and Disasters -- Chapter 21. Strategy in Water Resources Sector in India Post COVID 19 -- Chapter 22. Multi-Hazard Risk Management During Pandemic -- Chapter 23. Enhancing Epidemic Resilience: Planning and Institutional Resilience -- Chapter 24. Lessons from Trans-Domain Assessment of COVID 19 Outbreak.-.

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### Sommario/riassunto

In light of the novel corona virus outbreak in December 2019 and its subsequent impact on entire world as a global pandemic, the book attempts to provide integrated risk assessment on Covid -19 like pandemics, as well as to understand the societal, environment and economic impact of the outbreak in various sectors of development. It covers fundamental factors of global disease outbreaks and its coverage as major disaster through the complexity and severity of consequences, illustrating the dimensions of low frequency high intensity disasters. It brings together broad range of topics including basic concepts, isolation measure, role of governance and key technical advancements for containing the diseases. In addition, it also covers resilience analysis towards the impacts such outbreaks have on biodiversity, ecosystem services and agricultural food production. It defines key exit strategies from the lessons learned and success stories of historical disease outbreaks. The book is presented in four parts, where part 1 familiarizes with fundamentals; part 2 focuses on integrated risk assessments; part 3 focuses on various measures and strategies of resilience; and part 4 suggests key lessons and recommendations. The book is a useful reading reference for scientific community, policy makers and professionals across the domains of health, environment, disasters and sustainable development. Book is specifically beneficial for postgraduate students, researchers, planners and field professionals.

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