

About the Book

In the context of triple environmental crisis encompassing climate change, biodiversity loss, and pollution along with land degradation, the urgency for a collective action leading to sustainable future has never been greater. More precisely this includes a robust plan to address key drivers such as environmental pollution to achieve bigger global goals such as achieving net-zero society. With this background, this book strives to present a deep insight into mining activities going around the world and its impacts such as environmental pollution and its associated health risks. Later it presents various management solutions fulfilling both short (related to monitoring , and regulation using state of art technologies) and long term (Carbon storage, carbon sequestration using latest technologies such as shock wave technology (SWT), neutralization and reclamation, enhancing science-policy interface and various challenges when upscaling these management practices at industrial scale etc.), goals and targets. All above mentioned aspects of the book was presented and supported with case studies from different countries in Asia, Africa, and America . We strongly believe that finding from this book will certainly be useful to different stakeholders ranging from scientific communities , policy makers, community based organization NGO's.

Contents

- 1) From ore to steel manufacturing and its evolution in the practices of productive processes in Mexico.
- 2) Geological Effects on Quarry Blasting Fragmentation-Study on Limestone Mining of Southern India
- 3) Nickel Enrichments in Freshwater Fishes from Mining Region of Eastern Colombia: Assessing Human Health Risk
- 4) Mining Hazards and Human Health Risk: A case study of stone mining in Hamirpur District , Himachal Pradesh, India
- 5) Water Quality Index Review-Trends and Views
- 6) Policy Development for Carbon Sequestration : A case study on mining aspects in mexico
- 7) Energy-Generation Processes Using Co₂

- 8) Techno-Economic Evaluation of Carbon Dioxide Capture Technologies: A state of the art review of chemical absorption processes
- 9)The current methods and practices of CO₂ capture,