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Land Reclamation and Restoration Strategies for Sustainable Development

Geospatial Technology Based Approach



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Anthony David Bradshaw, M. H. Wong

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Reclamation of Mine-impacted Land for Ecosystem Recovery Nimisha Tripathi, Raj S. Singh, Colin D. Hills, 2016-02-04 Mining activities significantly impact the environment they generate huge quantities of spoil promote deforestation and the loss of agricultural production as well as releasing contaminants that result in the loss of valuable soil resources These negative impacts are now being recognized and this book shows how corrective action can be taken The introduction of sustainable mining requires mitigation strategies that start during the mine planning stage and extend to after mineral extraction has ceased and post closure activities are being executed Reclamation of Mine impacted Land for Ecosystem Recovery covers methods of rejuvenation of mine wasteland including different practices of physical chemical and ecological engineering methods benefits of rejuvenation stabilization of land surfaces pollution control aesthetic improvement general amenity plant productivity and carbon sequestration as well as restoring biodiversity and ecosystem function best management practices and feasible solutions to the impacts of mining which will reduce the pollution load by reducing the discharge rate and the pollutant concentration reduce erosion and sedimentation problems and result in improved

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