

# Title Introductory Mining Engineering

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an introductory text and reference on mining engineering highlighting the latest in mining technology introductory mining engineering outlines the role of the mining engineer throughout the life of a mine including prospecting for the deposit determining the site s value developing the mine extracting the mineral values and reclaiming the land afterward this second edition is written with a focus on sustainability managing land to meet the economic and environmental needs of the present while enhancing its ability to also meet the needs of future generations coverage includes aboveground and underground methods of mining for a wide range of substances including metals nonmetals and fuels completely up to date this book presents the latest information on such technologies as remote sensing gps geophysical surveying and mineral deposit evaluation as well as continuous integrated mining operations and autonomous trucks also included is new information on landscape restoration regional planning wetlands protection subsidence mitigation and much more new chapters include coverage of environmental responsibilities regulations health and safety issues generously

supplemented with more than 200 photographs drawings and tables introductory mining engineering second edition is an indispensable book for mining engineering students and a comprehensive reference for professionals

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this book covers both above ground and underground methods for a wide variety of mineral substances including metals non metals and fuels completely revised this book includes updated material on remote sensing gps seismic surveying ground penetrating radar continuous integrated mining operations and autonomous trucks it also includes a new chapter on environmental responsibilities regulations and health and safety issues the book covers new information on landscape regional planning wetlands protections and subsidence mitigation introduction to mining mining and its consequences stages of mining prospecting and exploration stages of mining development and exploitation unit operations of mining surface mine development surface mining mechanical extraction methods surface mining aqueous extraction methods underground mine development underground mining unsupported methods underground mining supported methods underground mining caving methods novel methods and technology summary of mining methods and their selection

this beginning text and elementary reference book in mining engineering adopts both a quantitative and a numerical approach an in depth treatment of the applications of mining engineering is given and the material is reinforced with clear complete analyses of special topics as well as numerical examples and problems novel methods are highlighted and case studies answers to selected problems extensive references and bibliography are provided with both english and si metric units

this book explains the topics related to the introduction to mining engineering in detail it has been prepared especially for the benefit of students and academicians studying at the faculty of mining the topics have been prepared in order and by taking into consideration the important issues

vol 3 includes v 190 of the transactions

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