



# Applied Mining Geology (Modern Approaches in Solid Earth Sciences)

By Marat Abzalov

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**Applied Mining Geology (Modern Approaches in Solid Earth Sciences)** By Marat Abzalov

This book provides a detailed overview of the operational principles of modern mining geology, which are presented as a good mix of theory and practice, allowing use by a broad range of specialists, from students to lecturers and experienced geologists.

The book includes comprehensive descriptions of mining geology techniques, including conventional methods and new approaches. The attributes presented in the book can be used as a reference and as a guide by mining industry specialists developing mining projects and for optimizing mining geology procedures. Applications of the methods are explained using case studies and are facilitated by the computer scripts added to the book as Electronic Supplementary Material.

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## **Editorial Review**

### Review

“Abzalov, an experienced geologist, offers a wide-ranging, intensely practical volume that succinctly covers the basic sciences and methodologies of the evaluation and development of ore deposits in modern times. ... This reviewer recommends that no student or professional within the modern mining industry (whether scientist or business worker) should be without ready access to this essential reference volume. Summing Up: Essential. Lower-division undergraduates and above; faculty and professionals.” (T. L. T. Grose, Choice, Vol. 54 (7), March, 2017)

“The publication is organised in seven parts, covering various aspects of mining geology and its application to enable decision-making on mines. ... it does provide geologists with a good understanding to analyse the impact of decisions in drill spacing, mining unit size, uncertainty in geology and sampling, and many other variables, and to demonstrate this to the broader mining disciplines. I would recommend it as a handbook to aspiring and current mining geology professionals.” (Pamela Naidoo-Ameglio, The AusIMM Bulletin, ausimmbulletin.com, December, 2016)

### From the Back Cover

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### About the Author

Dr Abzalov is a geologist with 35 years of experience. He has obtained his PhD in Geology studying nickel sulphide deposits in Russia and Fennoscandia and then undertaken additional post-graduate studies of Applied Mathematics at Murdoch University, Australia and Geostatistics in Fontainebleau, France. He has worked in different roles in research, exploration and mining geology, including the positions of Geology Manager – Project for WMC Resources and Exploration Manager – New Opportunities (Eurasia) and Group Geostatistical Consultant for Rio Tinto.

With diverse commodity and geographical experience, encompassing five continents, Dr. Abzalov has demonstrated skills in greenfields, brownfields and resource modelling. With an innovative approach of geostatistically assisted 3D structural modelling, he has lead WMC Resources to the successful resource

growth at Olympic Dam and Cliffs deposits. He was also instrumental in the discovery of the uranium resources in Jordan.p>

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#### **Tammy Jones:**

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