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# Mineral Resources, Economics and the Environment

*Stephen Kesler, Adam Simon*
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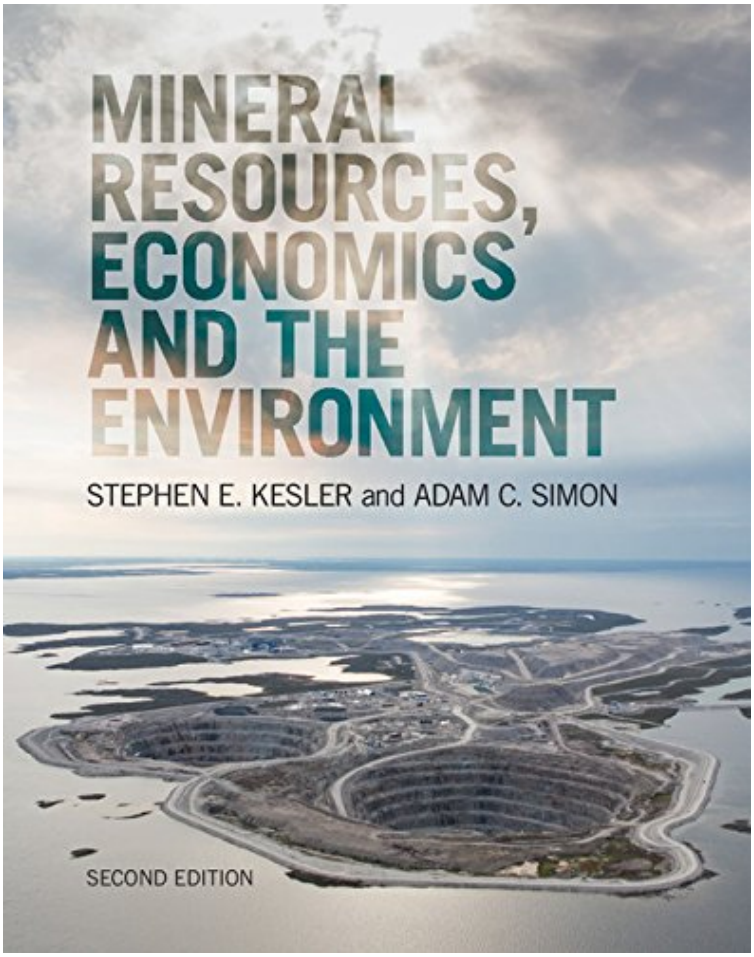


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**Stephen Kesler, Adam Simon : Mineral Resources, Economics and the Environment** before purchasing it in order to gage whether or not it would be worth my time, and all praised Mineral Resources, Economics and the Environment:

1 of 1 people found the following review helpful. Highly valuable desk reference for professionalsBy CustomerAn excellent reference source and survey overview of economic minerals use and distribution in the Earths crust. The primary strenghts presented include a nice mix of technical geological process information which results in the known distribution of minerals and their use in society and the economics of minerals. The social license to mine in areas of high consumption is nicely presented along with the debates about who's backyard should extractive industries be located? Future editions could include more information on best practices for environmental protection, regulatory oversight and permitting, engineering controls, and monitoring at modern mining locations, and lessons learned from historical mining sites with respect to environmental impacts and the costs associated with those impacts.Highly recommended to all professionals working in the minerals industries in addition to students preparing for careers in natural resources.

Written for students and professionals, this revised textbook surveys the mineral industry from geological, environmental and economic perspectives. Thoroughly updated, the text includes a new chapter on technology industry metals as well as separate chapters on mineral economics and environmental geochemistry. Carefully designed figures simplify difficult concepts and show the location of important deposits and trade patterns, emphasising the true global nature of mineral resources. Featuring boxes highlighting special interest topics, the text equips students with the skills they need to contribute to the energy and mineral questions currently facing society, including issues regarding oil pipelines, nuclear power plants, water availability and new mining locations. Technical terms are highlighted when first used, and references are included to allow students to delve more deeply into areas of interest. Multiple choice and short answer questions are provided for instructors online at www.cambridge.org/kesler to complete the teaching package.

'This book will be an ideal text for senior undergraduates and postgraduate students. The information is up-to-date, informative and well-illustrated and will allow readers to make valued decisions on the relevance and importance of mineral resources and energy to our civilization. In addition, this book will be of great interest to the general public wanting to learn about mineral resources, economics and the environment.' Bruce Gemmell, University of Tasmania, Sandy Bay'Stephen Kesler and Adam Simon have done a remarkably good job at presenting a wealth of information about mineral resources along with a balanced view of their economic, environmental and political context that should be easy to understand by technical and non-technical readers alike. They have made particularly good use of text boxes to highlight relevant information and to draw attention to some rather provocative topics that deserve discussion and debate. I strongly recommend this book as a necessary reference to all who are serious about understanding the role of mineral resources in societies today.' M. Stephen Enders, Colorado School of Mines'I have been encouraging development of this revised edition for some time, as Mineral Resources, Economics and the Environment includes the ideal mix of topics for a course that I teach on global issues in Earth resources. In addition to the coverage of major energy, metallic, and industrial mineral commodities, the new chapter on technology elements is particularly timely. The new pedagogic insets are an excellent means to guide critical thinking on the complex interplay of societal mineral resources demand and its consequences. This revised edition should continue to be a leading textbook on Earth resources, as well as a useful reference for the non-specialist.' J. Richard Kyle, University of Texas, Austin'... the three topics in the title of this book are intimately interrelated and an understanding of all three is required to best plan for increased demand for minerals as global population grows and economic development advances. This book contains a plethora of data and information that cannot be found easily elsewhere and provides a good gateway into the pertinent literature. It should be required reading for anyone taking a side in the 'development vs. environmental preservation' debates related to mineral and energy extraction. This should include policy makers both nationally and internationally. I see this book as a nice companion textbook for geosciences classes in mineral deposits and also in environmental science, and it is an excellent choice of a textbook for a class for upper-level undergraduate and graduate students designed to bridge the fields of mineral resources, environmental science, the law, and perhaps even ethics.' James A. Saunders, American Mineralogist'Mineral resource use has burgeoned in the decades since this classic text first appeared. The authors retain most topics and illustrations in the second edition but thoroughly update reserve numbers, case studies, etc. The new edition is longer but organized in the same manner. Half of the 14 chapters are devoted to general subjects (e.g., exploration and mining law); others are specific to categories of commodities (e.g., precious metals/gems and agricultural/chemical minerals). ... The longest chapter concerns (nonrenewable) energy resources, so the authors define the term mineral broadly. New angles include the impacts of recent economic volatility and China's rapid expansion. The authors mention environmental aspects of various mining activities but argue that trade-offs are inevitable at this high level of consumption. Readers may need prior knowledge in [specific] areas but will be rewarded with a succinct overview of the entire mineral resource landscape.' B. M. Simonson, ChoiceAbout the AuthorStephen Kesler is an Emeritus Professor in the Department of Earth and Environmental Sciences at the University of Michigan and a leading expert in the field of mineral resources. He has taught economic geology for almost 50 years, and has worked with numerous exploration, mining, and energy companies worldwide. His research interests include geology and geochemistry of ore deposits, and mineral exploration and economics.Adam Simon is an Associate Professor in the Department of Earth and Environmental Sciences at the University of Michigan, specialising in economic geology, igneous petrology and geochemistry. He combines field, laboratory and experimental work to investigate the physical and chemical evolution of magmatic systems and the formation of ore deposits.