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# **South African Geology For Mining Metallurgical Hy**

*Vols. 1-6, 49-68 include its  
Proceedings.*

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*This SME classic is both a reference book for the working engineer and a textbook for the mining student. This hardcover edition gives a brief history of surface mining and a general overview of the state of surface*

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*mining today--topics range from production and productivity to technological developments and trends in equipment. This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of*

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*fields, including basic finance and economics, logistics, and pragmatic prospecting. Readers will find material on all these topics and more. The book's nine chapters include: Introduction, Exploration and Geology Techniques, Ore*

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*Transactions of the Geological  
Society of South Africa*

*Geological Survey Professional  
Papers*

*The South African Institute of Mining  
and Metallurgy School, University of*

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*the Witwatersrand, Johannesburg,  
June 27-July 2, 1983*

*Gold Deposits in Metamorphic  
Rocks*

*A Bibliography of South African  
Geology to the End of 1920*

*Bibliography of South African*

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Africa's Geological and Mining  
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Rocks South African Geology for  
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Geology For Mining, Metallurgical,  
Hydrological, and Civil Engineering  
The Search for Gold in South Africa from  
1842 to 1872 A Bibliography  
Geological Atlas of Africa With Notes on  
Stratigraphy, Tectonics, Economic  
Geology, Geohazards, Geosites and

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Geoscientific Education of Each  
Country Springer Science & Business  
Media

This book provides the basic know-  
how and guidance to effectively exploit  
non-destructive geophysical  
technologies and apply them in the  
underground mining environment to

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optimise mineral extraction and to contribute to safer mining. The effective application of these technologies can enable a better understanding of the unseen orebody and the surrounding rock mass ahead of the mining face; the potential benefits of applying in-mine

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geophysics is demonstrated through a selection of case studies conducted in deep-level hard rock mines in South Africa. This book also offers valuable insight and training material for students in a variety of relevant mining disciplines like geology, rock engineering, mining engineering, mine

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planning and mineral resource  
management.

African Mining '91

South African Geology

Lecture Notes for School

The Quarterly Journal of the  
Geological Society of London

'Africa Forms the Key'

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For Mining, Metallurgical, Hydrological,  
and Civil Engineering

This atlas is intended  
primarily for anybody  
who is in-some  
background for the  
arrangement of how the

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terested in basic  
geology of Africa. Its  
originality lies atlas  
was done. T e second  
chapter is devoted to  
the in the fact that the  
regional geology of each

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African history of  
geological mapping in  
Africa, necessary nation  
or territory is reviewed  
country-wise by maps for  
a fuller appreciation of  
why this work in Africa



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is and text, a view normally not presented in textbooks worth doing. Chapter 3 provides an executive s- of regional geology. It is my belief, that there

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has long mary on the  
stratigraphy and  
tectonics of Africa as a  
been a need in  
universities and  
geological surveys,  
whole, i. e. in the

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context of no political boundaries. both in Africa and in the developed world, for sum- T e main part of the atlas lies in Chapter 4, where in

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marizing geological maps  
and an accompanying  
basic alphabetical order  
each African country or  
territory text utilising  
the enormous fund of  
knowledge that is

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presented by a digitized  
geological overview map  
has been accumulated  
since the beginning of  
geologi- and an  
accompanying text on its  
respective strat- th cal

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research in Africa in the mid-19 century. I hope raphy, tectonics, economic geology, geohazards and that, in part, the present atlas may satisfy this need.

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geosites. A short list  
of relevant references  
is also a- ed.

Southern Africa is home  
to many important and  
interesting minerals, as  
well as a wide array of

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beautiful gemstones –  
including diamonds from  
South Africa, emeralds  
from Zimbabwe and  
tourmalines from  
Namibia. Minerals &  
Gemstones of Southern



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Africa is not only the most up-to-date publication on the minerals of Botswana, Eswatini, Lesotho, Namibia, South Africa, southern Mozambique and

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Zimbabwe, but also the first to feature the region's gemstones.

Mineral species descriptions detail their gemological properties, history,

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occurrence and uses, and are illustrated with striking full-colour photographs. The book includes: An introduction to the geology of the region.

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Detailed descriptions of minerals, including their gemological properties, history, occurrence and uses. Multiple full-colour photographs of the

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species. An invaluable guide for collectors, gemologists, students and anyone with an interest in earth sciences. Sales points:  
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the region's diverse mineral and gemstone heritage. Over 1 000 full-colour photographs. Concise, authoritative text.

Scientific

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## Investigations Report

The Search for Gold in  
South Africa from 1842  
to 1872

50 Must-See Geological  
Sites

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~Theæ Geology,  
Infrastructure and  
Mining Technology of the  
South African Coal  
Industry  
Problems and Prognosis  
for the Next Twenty



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## Years

*Field Guide to Rocks and Minerals of Southern Africa is the first definitive field guide to document the common, rare and unusual rocks and*

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*minerals of South Africa,  
Namibia, Botswana,  
Zimbabwe, Lesotho,  
Swaziland and also  
southern Mozambique.*

*Supported by more than 500  
full-colour photographs,*

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*the text describes in detail a wide range of the region's common and attractive rocks and minerals. Authoritative information is presented in a user-friendly manner*

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*and is enlivened by box and panel features. It will appeal to mineral collectors, geologists, gemologists, students, and anyone with an interest in the natural environment.*

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Updated Annually. Capital  
for African Countries  
Handbook  
South African Journal of  
Geology  
Mineral Deposits of*

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*Southern Africa  
Publications of the  
Geological Survey of the  
Republic of South Africa  
Minerals & Gemstones of  
Southern Africa  
The Application of*

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*Geophysics in South Africa  
Deep-Level Gold and  
Platinum Mining*

Vols. 1-108 include Proceedings of  
the society (separately paged,  
beginning with v. 30)

The second 'African Mining'  
conference is planned for June

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1991, and follows the first, very successful, event held in May 1987. That full four-year period was characterized by substantial changes in the political and economic climate of many countries in both hemispheres. Copper prices were relatively firm,



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and the advance and steady demand for nickel and ferrochromium stabilized important sectors of the mineral industry, certainly in Zimbabwe. The promise for gold remained unfulfilled, but the smaller, relatively flexible, mines survived

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and only the large, deep and low-value mines seem seriously at risk. None of this has affected the hungry, and intensive exploitations from surface to the water-table have revealed many targets of promise to those willing to take the risks. The pattern in Southern

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Africa was extraordinarily stable among the turmoil, with independence for Namibia, adjustments in South Africa and a gradual shift to market economies in the region. The pace of exploration has increased to recover some part of the progress

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that was lost in the Independence struggle, and at the end of the first decade in Zimbabwe, for example, oil is being sought in the Zambesi Rift, following the investigation of the Luangwa in Zambia, and there are exciting exploration projects for methane released from coal,

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deep in its basins.

Guidebook to Sites of Geological  
and Mining Interest on the Central  
Witwatersrand

Geologic Evolution of the  
Barberton Greenstone Belt, South  
Africa

A Bibliography

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Bibliography of the Geology and  
Mineralogy of the Rare Earths and  
Scandium to 1971

For Mining, Metallurgical,  
Hydrological and Civil Engineering  
Geological Survey Professional  
Paper

*This book examines the work*

*Page 46/61*

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*of prominent South African geologist Alex Du Toit as a means of understanding the debate around continental drift both in segregation-era South Africa and internationally. It*

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*contextualises Du Toit's work within a particularly formative period of South African science, from the paleoanthropological discoveries that sparked debates about the origins of*



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*humankind to Jan Smuts' own theory of holism. Beyond South African scientific discoveries, the book sets Du Toit's work against a backdrop of ideological struggles over space, both domestically in*

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*terms of segregation and nationalism, as well as internationally as South Africa sought to assert its position within the Commonwealth. These debates were embodied by Du Toit's work on the*

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*theory of continental drift,  
which put Africa - and South  
Africa - at the centre  
geologically and  
geographically. The author  
also focuses on the divisions in  
geology caused by drift theory,*

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*tracing the vigorous  
intellectual debate and dissent  
indicative of the ideological  
milieu within which scientific  
thought is constructed. It  
traces the history of  
continental drift from its*

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*inception in the nineteenth century and later work of Alfred Wegener, which was both elaborated upon and substantiated by Du Toit. The study further focuses on Du Toit's research on continental*

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*drift in South African and  
South America, and the  
geological, fossil and  
climatological evidence used  
to bolster this theory.  
The book presents 50 of the  
most recognizable and*

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*geologically interesting sites around South Africa, including some of palaeontological or historical renown and some of mining interest. The diverse selection includes sites such as Chapman's Peak, Howick*

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*Falls, Walter Sisulu National  
Botanical Gardens,  
Mapungubwe, Tswaing  
Meteorite Crater and the  
Fraserburg Fossil Surface.  
Each site is unpacked to  
reveal: key features; geological*



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*heritage; landscape and rock formations; topics of local or historical interest; things to see and do at the site and in the surrounding area. Maps and GPS pointers make the sites easy to find, and some of*

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*the more complicated features are explained by means of simplified diagrams. Nearly 1,000 colour images illustrate South Africa's remarkable geology and bring the topic vividly to life, making the book*

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*suitable for armchair travel  
too.*

*The South African Mining  
Journal Historical Supplement,  
1892-1914*

*S.A. Geology and Mineralogy  
for Metallurgists*

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*With Notes on Stratigraphy,  
Tectonics, Economic Geology,  
Geohazards, Geosites and  
Geoscientific Education of  
Each Country  
The Role of E.G.R.U. in  
Mineral Exploration in South*

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*Africa*

*Being a List of Books, Papers  
and Reports on the Subject.  
Parts I and II.*

*Bibliography on the Geology  
and Resources of Vanadium to  
1968*