

Electrification Phenomena in Rocks

Edmond E. Philippot



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Electrification Phenomena In Rocks:

Electrification Phenomena in Rocks E. I. Parkhomenko, 2013-11-11 In many areas of geophysics geology geochemistry and mining there is considerable interest in laboratory data on the physical properties of various types of rocks Until recently how ever only the mechanical properties of rocks had been studied in detail The last few years have seen a relatively large amount of study of the electrical properties of rock samples and a need to organize the results of these studies has arisen In *Electrical Properties of Rocks* E 1 Parkhomenko reviewed and cataloged studies of electrical resistivity and the dielectric constant in rocks In the present work she covers other electrical phenomena which are observed to occur in rocks and minerals and reviews the re sults of her own researches as well as that of others previously published Theoretical and experimental data on the piezoelectric prop erties of minerals and rocks obtained since 1953 by E 1 Parkho menko and myself as the result of laboratory investigations on quartz bearing rocks granite gneiss quartz veins etc comprise the bulk of the monograph Chapters 1 4 It was not previously con sidered that a polycrystalline mass such as a rock could exhibit piezoelectric properties it was supposed characteristic only of single crystals *Electromagnetic Radiation from Rock Failure* David R. Hanson, Glen A. Rowell, 1982 *Rock Weathering* Dorothy Carroll, 2012-12-06 Soil science is perhaps one of the oldest practical sciences having been of concern to man probably from the time he progressed from a strictly preda tory life to one in which agriculture became important In view of the anti quity of concern with the subject it is perhaps surprising that it can be approached from a fresh viewpoint as is done in this book Because soil science is an applied science it is not surprising that the approach is usually descriptive rather than imaginative For agriculturalists and other land users perhaps the most important part of soil science is the description of soils and the capacities of such soils to maintain crops and this is reflected by the fact that soil science is usually treated in a highly descriptive manner with soil classification being one of the main efforts The treatment of the subject from a geological point of view with considerable emphasis on the evolution of soils and the reasons governing their composition and form makes this a highly readable book Books on soil science are timely with present day concern with such major problems as the pollution of our environment and the possibility of overreaching our capacity for producing food for an expanding population **Electrical Spectroscopy of Earth Materials** Tsylya M. Levitskaya, Ben K. Sternberg, 2019-06-21 *Electrical Spectroscopy of Earth Materials* provides detailed coverage of theoretical and experimental methods of electrical spectroscopy of Earth materials based on first hand research and extensive data The book includes actual data sets and specific explanations for the methods used in obtaining and analyzing the data including graphical displays of results It describes the electrical properties of various soil samples and offers both theory and techniques for researchers to apply to their own research Including examination of the practical aspects of electrical spectroscopy measurements and extensive computer readable data *Electrical Spectroscopy of Earth Materials* is a unique resource for geophysicists to save both time and effort in understanding and analyzing Earth materials and soil properties

Includes coverage of spectroscopic methods including details of the measurement process and lab setup Provides information about the data processing program for calculating all electrical parameters Presents computer readable data for all samples from a wide variety of electrical conditions including high loss and low loss soils Features case studies and complete data sets for soil electrical property measurements *Remote Sensing and Geosciences for Archaeology* Deodato Tapete, 2018-04-27 This book is a printed edition of the Special Issue Remote Sensing and Geosciences for Archaeology that was published in Geosciences *Handbook of Physical Properties of Rocks (1982)* Robert S. Carmichael, 2017-11-22 This three volume handbook provides reliable comprehensive data on the properties of rocks minerals and other related materials The format is largely tabular and graphical designed for ease of use in comparisons and referencing The chapters are contributed by recognized experts from leading university industrial and governmental scientific establishments *Report of Investigations*, 1981 **Geology, Geodynamics, and Atmospheric Electricity** Vladimir Shuleikin, 2020-01-10 Bubbles of hydrogen and methane carry soil radon the main ionizer of surface air into the surface atmosphere As a consequence of ionization light ion pairs are formed that determine the polar conductivity of the surface air light ions aggregation with neutral condensation nuclei gives heavy ions primarily responsible for the atmospheric electric field As such the density of hydrogen and methane subvertical flows will determine local electrical characteristics of the surface atmospheric air Geological heterogeneities deformations and seismic and hydrogeological activity can change the density of hydrogen and methane flows This book brings together extensive material from field observations to illustrate the possible use of atmospheric electrical monitoring to solve problems of applied geophysics *Chemistry of the Ionosphere* A. Danilov, 2012-12-06 I was very happy to learn that Plenum Press has decided to publish an English edition of *Chemistry of the Ionosphere* Although the book was largely intended for the Soviet reader in order to fill some gaps in Russian language reviews on aeronomic problems I hope that it may be useful to foreign specialists engaged in ionospheric research as well Naturally during the time which has elapsed since the preparation of the Russian edition new studies have been published in the world literature on the problems dealt with in this book The most important of these are noted in the appendix to this edition but some problems for example with respect to the physics of negative ions in the lower ionosphere require a radical reexamination which cannot be done in a brief appendix I will be pleased if publication of the book in English will assist in removing some of the currently existing ambiguities in basic problems of upper atmosphere chemistry A D Danilov Preface to the Russian Edition 1 In the last decade surprising successes have been achieved in the study of the earth's upper atmosphere by use of rockets and artificial satellites These investigations have made it clear that the upper atmosphere and particularly the ionospheric region at altitudes 100 1000 km is a considerably more complex formation than could be visualized prior to the advent of active studies with space vehicles *Volcanism and the Upper Mantle* G. Gorshkov, 2012-12-06 The present volume seems to me to be a particularly important one for several reasons Not least

among these is the fact that it summarizes the work of two decades by G S Gorshkov one of the world's leading volcanologists. In addition it is the first general work of this length on the volcanism of what might be called a narrow island arc, a relatively simple megastructure as compared with the wide arcs such as Japan and Indonesia. Finally in this volume Gorshkov has summarized and cited extensive evidence for his general ideas on the relation between volcanism and the earth's crust and mantle. A few potentially troublesome items should be noted here. In the translation the Russian terms *suite* and *series* have been retained though for American readers these might better have been translated as *formation* and *group*. In almost all cases Russian place names have simply been transliterated rather than translated, e.g. Yuzhnyi Isthmus rather than South Isthmus. In a few cases the English equivalent has been given in brackets where this is essential to the understanding of the author's comments. The adjectives have retained their Russian case endings in the process: masculine *yi* or *ii*, feminine *aya* or *ya*, neuter *oe*, and this may occasionally lead to some slight confusion, for example when the author calls a given feature Severnyi Volcano at one point and Severnaya Mountain at another.

Practical Handbook of Physical Properties of Rocks and Minerals (1988) Robert S. Carmichael, 2017-11-22. CRC Practical Handbooks are a series of single volume bench manuals that feature a synthesis of the most frequently used basic reference information. These highly abridged versions of existing CRC multi-volume Handbooks contain largely tabular and graphic data. They provide extensive coverage in a scientific discipline and enable quick convenient access to the most practical reference information on the spot. Leading professionals in their respective fields collaborated to provide individuals and institutions with an economical and easy to use source of classic reference information. The CRC Practical Handbook of PHYSICAL PROPERTIES of ROCKS and MINERALS prepared by leaders in their specialties has been constructed to serve as a convenient compact yet comprehensive source of basic information. The technical data have been compiled and selectively edited to provide an organized and definitive presentation of the physical properties of rocks and their constituent minerals. The format is primarily tabular and graphical for easy reference and comparisons. There is also instructive textual material to present, explain and clarify the data. This edited and abridged version of the CRC Handbook of Physical Properties of Rocks published in three volumes in 1982, 1984 will serve as an easy to use source of current and useful reference information.

Geophysical Electromagnetic Theory and Methods Michael S. Zhdanov, 2009-06-12. In this book the author presents the state of the art electromagnetic (EM) theories and methods employed in EM geophysical exploration. The book brings together the fundamental theory of EM fields and the practical aspects of EM exploration for mineral and energy resources. This text is unique in its breadth and completeness in providing an overview of EM geophysical exploration technology. The book is divided into four parts covering the foundations of EM field theory and its applications and emerging geophysical methods. Part I is an introduction to the field theory required for baseline understanding. Part II is an overview of all the basic elements of geophysical EM theory from Maxwell's fundamental equations to modern methods of modeling the EM field in

complex 3 D geoelectrical formations Part III deals with the regularized solution of ill posed inverse electromagnetic problems the multidimensional migration and imaging of electromagnetic data and general interpretation techniques Part IV describes major geophysical electromagnetic methods direct current DC induced polarization IP magnetotelluric MT and controlled source electromagnetic CSEM methods and covers different applications of EM methods in exploration geophysics including minerals and hydrocarbon exploration environmental study and crustal study Presents theoretical and methodological findings as well as examples of applications of recently developed algorithms and software in solving practical problems Describes the practical importance of electromagnetic data through enabling discussions on a construction of a closed technological cycle processing analysis and three dimensional interpretation Updates current findings in the field especially with MT magnetovariational and seismo electrical methods and the practice of 3D interpretations Laterite Benjamin S. Persons, 2012-12-06 In comparison with engineering geology is a relatively new domain of knowledge Man has been building almost from the moment he came down out of the trees or emerged from the caves All of his structures were founded in or upon rock or soil Before the end of what we call ancient history he had learned a great deal about materials mechanics and structures This empirical information had become an organized field of practical knowledge by the time of Leonardo da Vinci Although both foundations and materials of construction were largely earthy codified knowledge of neither one nor the other existed at that time During the last two centuries geology has emerged and has recently begun to take on a more quantitative aspect A generation ago it joined hands with civil engineering to create soil mechanics Engineers began to apply the science of geology to foundations and materials with astoundingly successful results and geologists began to acquire an understanding of engineering methods applying what they could to their problems Geological engineering was born of this union People of an older time employed stone and brick in construction although cut brick and sawed stone were used more sparingly because of a scarcity in both suitable raw materials and techniques They were used in Cambodia for example A material able to meet requirements was found nearby known as itica culla In India it was called vetu culla but F A

Modern Methods of Geochemical Analysis Richard Wainerdi, 2012-12-06 The founders of geology at the beginning of the last century were suspicious of laboratories Hutton's well known dictum illustrates the point There are also superficial reasoning men they judge of the great operations of the mineral kingdom from having kindled a fire and looked into the bottom of a little crucible The idea was not unreasonable the earth is so large and its changes are so slow and so complicated that laboratory tests and experiments were of little help The earth had to be studied in its own terms and geology grew up as a separate science and not as a branch of physics or chemistry Its practitioners were for the most part experts in structure stratigraphy or paleontology not in silicate chemistry or mechanics The chemists broke into this closed circle before the physicists did The problems of the classification of rocks particularly igneous rocks and of the nature and genesis of ores are obviously chemical and by the mid 19th century chemistry was in a state where rocks could be effectively analyzed and a

classification built up depending partly on chemistry and partly on the optical study of thin specimens Gradually the chemical study of rocks became one of the central themes of earth science Groundwater Dynamics in Hard Rock Aquifers Shakeel Ahmed,Ramaswamy Jayakumar,Abdin Salih,2008-11-18 This book contains the results and findings of the advanced research carried out in a pilot area with a thorough investigation of the structure and functioning of an aquifer in a granitic formation It characterizes the hard rock aquifer system and examines its properties and behavior as well as systematically details the geophysical geological and remote sensing applications to conceptualize such an aquifer system Electromagnetic Methods in Applied Geophysics Misac N. Nabighian,1988 Silica Peter J. Heaney,Charles T. Prewitt,Gerald V. Gibbs,2018-12-17 Volume 29 of Reviews in Mineralogy provides an updated silica review which focuses on the most recent developments This book describes the crystal structures and phase transitions of silica and its stuffed derivatives bridges the relationship between the microstructural character of real silica minerals and the behavior of silica in the geological environment covers Quantum mechanical considerations of the Si O bond shows how calculations based upon first principles theory can explain and predict silica transitions at high temperatures and pressures covers spectroscopic analyses of silica and how they reveal vibrational behaviors in response to variations in temperature pressure and composition and finally details the uses of silica for industrial purposes *Monitoring Ground Movements Near Caving Stopes* A. V. Petty,C. Melvin Lepper,David R. Hanson,Donald E. Shanks,Earl L. Phillips,H. B. Salisbury,James H. Maysilles,John W. Walkiewicz,Louis Anthony Panek,Richard O. Kneisley,Robert K. Koch,Ronald R. Backer,Seth C. Schaefer,Steven J. Page,Syd S. Peng,Terry L. Hebble,Theodore A. Kubala,Davis E. Traut,Eddie Martin,Frank J. Perzak,Glen A. Rowell,John M. Burrus,John S. Winston,Judith A. Eisele,Marinus L. Wouden,Richard A. Busch,Richard E. Thill,Vernon R. Miller,Willard John Tesch,Danton L. Paulson,Donald J. Bauer,Dwight L. Sawyer,Elton L. Litchfield,M. B. Shirts,Morton Min Wong,1981 Texture and Anisotropy U. F. Kocks,C. N. Tomé,H. -R. Wenk,2000-08-15 A successful book covering an important area of materials science now available in paperback **Protection Factors of the Airstream Helmet** ,1981

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