



Geophysics in the Affairs of Man

A Personalized History of Exploration Geophysics and
Its Allied Sciences of Seismology and Oceanography

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Pergamon Press

Geophysics In The Affairs Of Man

L Cohen



Geophysics In The Affairs Of Man:

Geophysics in the Affairs of Man Charles C. Bates, Thomas F. Gaskell, Robert B. Rice, 2016-01-22 Geophysics in the Affairs of Man describes how geophysics has affected human affairs with emphasis on the geophysical enterprise as an interplay of technical social and economic factors Many of the key and intriguing developments that took place within several major fields of geophysics are divided into seven epochs roughly broken into decades Topics covered include the origins of the profession of geophysics earth physics and oceanography and geophysical aspects of undersea warfare This book is comprised of nine chapters and begins with a discussion on some antecedents to the modern day profession of geophysics through World War I The following chapters focus on the golden days of exploration geophysics classical seismology during the war years the growth of geophysics during the 1950s and the nature of the geophysical exploration industry The closing chapter presents the views of numerous geophysicists about what they consider the most outstanding actions they were ever involved in as well as what makes the profession unique This monograph is written primarily for geophysicists geologists and geological engineers Geophysics in the Affairs of Mankind Lee C. Lawyer, Charles Carpenter Bates, Robert B. Rice, 2001

This personalized narrative is both a technical and economic history showing how exploration geophysics evolved from simple scientific beginnings into a sophisticated science impacting civilization in diverse ways It presents geophysics as an intriguing scientific and technical field full of sharp contrasts revealing it as an unusual blend of the theoretical and the practical the laboratory and the field the nonprofit effort and the profit making venture a cornerstone of peace and an implement of war Written by members of the profession well acquainted with many of the key actions and players this book describes intriguing developments and applications that took place within three interrelated fields of earth physics exploration geophysics seismology and oceanography during the never ending search for oil and natural gas Stressing challenge and change this chronicle is bracketed by two major flex points in Western civilization the initial waging of deadly global war 1914 18 and the conclusion in the 1990s of the Cold War that threatened civilization with nuclear annihilation It is a complex story of people and events that highlights the emergence of major industries on the international scene The book is must reading for all practicing earth scientists and their families investors in the industry and people interested in economic geology public and world affairs military warfare the history of science and technology environmental sciences and even outdoor adventure **Applied Geophysics** W. M. Telford, L. P. Geldart, R. E. Sheriff, 1990-10-26 This is the completely revised and updated version of the popular and highly regarded textbook Applied Geophysics It describes the physical methods involved in exploration for hydrocarbons and minerals which include gravity magnetic seismic electrical electromagnetic radioactivity and well logging methods All aspects of these methods are described including basic theory field equipment techniques of data acquisition data processing and interpretation with the objective of locating commercial deposits of minerals oil and gas and determining their extent In the fourteen years or so since the first edition of Applied

Geophysics many changes have taken place in this field mainly as the result of new techniques better instrumentation and increased use of computers in the field and in the interpretation of data The authors describe these changes in considerable detail including improved methods of solving the inverse problem specialized seismic methods magnetotellurics as a practical exploration method time domain electromagnetic methods increased use of gamma ray spectrometers and improved well logging methods and interpretation

Geophysics in the Affairs of Man Charles C. Bates, Thomas F. Gaskell, Robert B. Rice, 2013-09-03 Geophysics in the Affairs of Man A Personalized History of Exploration Geophysics and its Allied Sciences of Seismology and Oceanography describes many of the key and intriguing developments which took place within several major fields of geophysics This book is composed of nine chapters that focus on the geophysical enterprise as an interplay of technical social and economic factors After a brief overview of geophysics activity before the World War I this book goes on the period of the so called golden days of exploration geophysics The succeeding chapter deals with the exploration geophysics during the global war particularly the classical seismological activity during this time These topics are followed by discussions of the geophysical activities from 1945 to 1960 as well as the introduction of oceanography field Other chapters cover the interaction between geophysics and ecology as well as OPEC during the period of 1970s and early 1980s The final chapters consider the status and nature of geophysical exploration industry This book will prove useful to geophysicists historians and researchers in the allied fields Geophysics in the Affairs of Mankind Lee C. Lawyer, 2001

The Evolution of a European Glyn Ford, 1993 Selection of published articles and writings **Geophysics in the affairs of man; Personalized history of exploration geophysics and its allied sciences**, 1982 *Information Sources in Physics* Dennis F. Shaw, 1994 This third edition includes two new chapters on quantum optics and physics of materials and eight of the other chapters have been completely rewritten by new authors All chapters have been revised and updated Patent coverage now includes European and international patents Theoretical materials a Earth Sciences History, 1982

Exploration and Economics of the Petroleum Industry, 1985 Information Sources in the Earth Sciences David Norris Wood, 1989 Bulletin of the Institute of Geophysics, 1925 The Leading Edge, 2010 **Marine Technology Society Journal** Marine Technology Society, 1983 **Emplacement and Structural Setting of Granitoids in the Early Proterozoic Tampere and Savo Schist Belts, Finland** Anneli Uutela, Isaac Marobhe, Marjatta Aalto, Mikko Nironen, Pentti Hölttä, Satu Mertanen, Yrjö Kähkönen, 1988 **Geophysics, the Leading Edge of Exploration**, 1992 **New Scientist**, 1983 *The Petroleum Economist*, 1983 Ocean Science News, 1982 **The Cumulative Book Index**, 1928 A world list of books in the English language

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