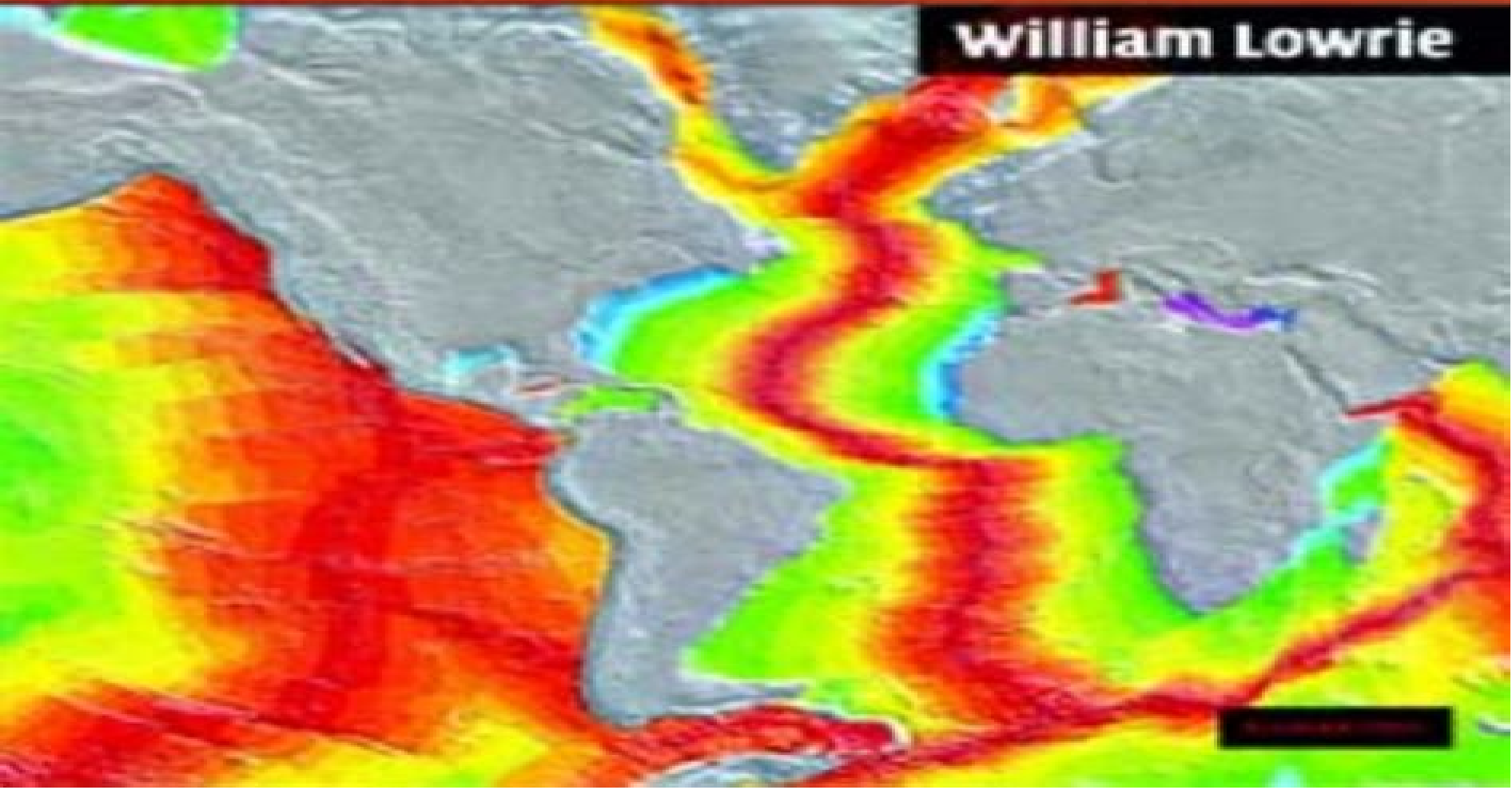


Second Edition

Fundamentals of Geophysics

William Lowrie



Fundamentals Of Geophysics

Christoph Clauser

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Fundamentals Of Geophysics:

Fundamentals of Geophysics William Lowrie,1997-09-11 This textbook presents a comprehensive overview of the fundamental principles of geophysics It combines applied and theoretical aspects of the subject in contrast to most other geophysics textbooks which tend to emphasise either one or the other The author explains complex geophysical concepts using abundant diagrams a simplified mathematical treatment and easy to follow equations After placing the Earth in the context of the solar system it describes each major branch of geophysics gravitation seismology dating thermal and electrical properties geomagnetism palaeomagnetism and geodynamics Each chapter begins with a summary of the basic physical principles and a brief account of each topic s historical evolution Pitched at a level between introductory and advanced texts the book will satisfy the needs of intermediate level earth science students from a variety of backgrounds while at the same time preparing geophysics majors for continued study to a higher level The book is destined to become a core textbook for geology and geophysics courses

Fundamentals of Geophysics William Lowrie,Andreas Fichtner,2020-01-02 A thoroughly reworked third edition featuring new data acquisition technologies research developments and computational exercises in Python

Fundamentals of Geophysical Interpretation Laurence R. Lines,Rachel Therese Newrick,2004 Fundamentals of Geophysical Interpretation SEG Geophysical Monograph Series No 13 is a practical handbook for the petroleum geophysicist Fundamental concepts are explained using heuristic descriptions of seismic modeling deconvolution depth migration and tomography Pitfalls in processing and contouring are described briefly Applications include petroleum exploration of carbonate reefs salt intrusions and overthrust faults The book includes past present and possible future developments in time lapse seismology borehole geophysics multicomponent seismology and integrated reservoir characterization

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endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework which other allied disciplines utilize for more specific investigations The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company More than two decades later this new volume edited by Prof Harsh K Gupta represents a thoroughly revised and expanded reference work It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub disciplines such as Gravity Geodesy Geomagnetism Seismology Seismics Deep Earth Processes Plate Tectonics Thermal Domains Computational Methods etc in a systematic and consistent format and standard It is an authoritative and current reference source with extraordinary width of scope It draws its unique strength from the expert contributions of editors and authors across the globe It is designed to serve as a valuable and cherished source of information for current and future generations of professionals

Grundlagen der angewandten Geophysik - Seismik, Gravimetrie Christoph Clauser, 2018-02-16 Dieses Buch vermittelt einen Einstieg in die geophysikalischen Erkundungsmethoden Seismik und Gravimetrie Es erklärt wie elastische Wellen und Unterschiede der Gesteinsdichte zur Sichtbarmachung von Strukturen im Untergrund genutzt werden können Das Kapitel Seismik erläutert zunächst die Elastizität von Gesteinen und die verschiedenen Typen elastischer Wellen und deren Ausbreitung Es folgt eine Einführung in die digitale Verarbeitung seismischer Signale in der die Konzepte der Fourier Z Radon und Wavelet Transformationen erläutert werden ebenso wie die Anwendung von Methoden der Konvolution Dekonvolution Kreuz und Autokorrelation auf seismische Daten Aufbauend auf diesen theoretischen Grundlagen erfahren Sie wie mittels Durchschallung mit seismischen Wellen Strukturen des Untergrunds tomografisch sichtbar gemacht werden können Hierauf folgt eine Einführung in die Techniken der Reflexions und Refraktionsseismik die erläutert wie die jeweiligen Datensätze bearbeitet interpretiert und veranschaulicht werden Das Kapitel Gravimetrie fasst zunächst zusammen wie man Schwerebeschleunigungen aus Schwerepotenzialen berechnet und wie das optimal an das Schwerfeld der Erde angepasste Rotationsellipsoid definiert ist Abweichungen hiervon sind die gesuchten Schwereanomalien die Rückschlüsse auf Strukturen im Untergrund erlauben Ihre Identifizierung erfordert eine Reihe von Korrekturen und Reduktionen die ausführlich erläutert werden Abschließend erfahren Sie wie Schweredaten interpretiert werden können vom Vergleich mit der Schwerewirkung einfacher Modellkörper über Fourier und Wavelet Analyse bis hin zu dreidimensionalen Modell und Inversionsrechnungen Dieses Buch eignet sich hervorragend als Lehrbuch für Bachelor Studierende der Geophysik und der Geowissenschaften im Allgemeinen sowohl zur Begleitung einer Vorlesung als auch zum Selbststudium Aufgaben mit durchgerechneten Antworten helfen zur Überprüfung des erlangten Verständnisses

Fundamentals of Geophysical Data Processing Jon F. Claerbout, 1976 Einführung in die Geophysik Christoph Clauser, 2016-01-27 Christoph Clauser führt mit diesem nunmehr in der zweiten Auflage vorliegenden vollständig

bearbeiteten Lehrbuch Anfänger auf einem mittleren Niveau in die Geophysik ein. Er geht dabei über eine rein phänomenologische Beschreibung hinaus und erläutert systematisch die physikalischen Grundlagen der beschriebenen Phänomene. Behandelt werden jene Prozesse und Felder, die die Erde als Ganzes betreffen: ihre Position im Weltall, ihr genereller Aufbau, ihr Alter und das ihrer Gesteine, Erdbeben und deren Nutzung zur Erkundung der inneren Struktur der Erde, ihre äußere Form, Gezeiten und isostatischen Ausgleichsprozesse, die Struktur des Erdmagnetfeldes, der erzeugende Geodynamoprozess sowie die Wechselwirkung zwischen der Magnetosphäre der Erde und dem Plasmastrom des Sonnenwinds, das Temperaturfeld der Erde und Wärmetransportprozesse im Kern, Mantel und in der Kruste der Erde und deren Bedeutung für den Antrieb des Geodynamos und der Plattentektonik. Allen Kapiteln ist jeweils ein kurzer historischer Abriss vorangestellt, der die Entwicklung der jeweiligen Disziplin bis in die jüngste Vergangenheit beleuchtet. Anhand von Biografien ausgewählter Wissenschaftler wird aufgezeigt, unter welchen äußeren und persönlichen Bedingungen diese ihre bahnbrechenden Ergebnisse erzielt haben. Der Text führt in die deutsche und englische Fachterminologie ein. Mathematische Ableitungen werden erläutert, Übungsaufgaben mit durchgerechneten Ergebnissen ermöglichen ein eigenständiges Bearbeiten der erlangten Verständnisse. Ein ausführlicher Anhang enthält eine Fülle nützlicher Zusatzinformationen wie geologische Zeittafel, allgemeine Bezugsdaten, Umrechnungsfaktoren, die aktuellsten Werte der Naturkonstanten, Rechenregeln für Vektoren und Tensoren und zudem zwei Kapitel zu den Grundgleichungen der Hydrodynamik und Hydrothermik. Das Buch wendet sich an Bachelor- und Masterstudierende der Geophysik und der Geowissenschaften sowie an Nebenfachstudierende der Physik, der Umweltwissenschaften und der Geökologie. Stimmen zum Buch: Gratulation zum Erfolg und Respekt, sehr gut gelungen! Prof. Heiner Igel, Technische Universität München: ein ausgezeichnetes Lehrbuch, das sowohl Anfängern als auch fortgeschrittenen Studenten der Geophysik und verwandten Fächern ein solides Grundwissen dieses Fachs vermittelt. Es macht Spaß, dieses Buch zu lesen, und dabei immer wieder neue Zusammenhänge der Geophysik zu entdecken, die auch manchem Experten dieses Gebietes vorher vielleicht nicht immer so bewusst waren. Prof. Martin Saar, Ph.D. Institut für Geophysik, ETH Zürich: ein herausragendes Buch in jeder Hinsicht. Inhaltliche Breite, fachliche Kompetenz, graphische Gestaltung: alles ist äußerst stimmig und spiegelt den sehr hohen physikalischen Anspruch moderner Geophysik wider, ohne jedoch den geowissenschaftlichen Hintergrund zu vernachlässigen. Univ.-Prof. Dr. Karl Heinz Glaumeier, Technische Universität Braunschweig: Mit diesem Lehrbuch ist nach Jahrzehnten endlich ein aktuelles deutschsprachiges Werk vorhanden, welches umfassend und detailliert in die globalen physikalischen Phänomene und Prozesse unserer Erde und deren mathematisch-physikalische Beschreibung einführt. Absolut empfehlenswert! Prof. Dr. Andreas Kemna, Lehrstuhl für Angewandte Geophysik, Universität Bonn: Die anschauliche und kompetente Darstellung der Grundlagen verknüpft mit interdisziplinärem Detailwissen präsentiert die Zusammenhänge der modernen Geophysik in dieser exzellenten Einführung, die für Studierende sehr zu empfehlen ist. Prof. Dr. Heidrun Kopp, Helmholtz-Zentrum für Ozeanforschung Kiel, GEOMAR, und Christian Albrechts

Universit t zu Kiel **Geophysics: A Very Short Introduction** William Lowrie, 2018-03-01 Geophysics is the physics of the Earth Central to the Earth Sciences today it encompasses areas such as seismology volcanism plate tectonics gravitational anomalies and the Earth s magnetic field present and past as captured in rocks all of which give clues to both the structure and the working of the Earth In this Very Short Introduction William Lowrie describes the internal and external processes that affect the planet as well as the principles and methods of geophysics used to investigate them He explains how analysis of the seismic waves produced in earthquakes reveals the internal structure of the Earth Geophysicists have established that the greatest source of energy powering geological processes is the Earth s internal heat Deep inside the Earth the temperature is high enough to produce a fluid outer core of molten iron It is the motion in this molten iron layer that produces the Earth s magnetic field which shields the planet against harmful radiation from the Sun and outer space and thus makes the planet habitable Lowrie describes how the magnetic field also magnetizes rocks during their formation leaving a permanent record of the ancient field and its direction that geophysicists have learned to use to interpret past motions of the continents and tectonic plates From analyses of Earth s deepest interior to measurements made from Earth orbiting satellites Lowrie shows how geophysical exploration is vitally important in the search for mineral resources and emphasizes our need to understand the history of our planet and the processes that govern its continuing evolution ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable Spectral Analysis and Filter Theory in Applied Geophysics Burkhard Buttkus, 2000-03-27 This state of the art survey serves as a complete overview of the subject Besides the principles and theoretical foundations emphasis is laid on practical applicability describing not only classical methods but also modern developments and their applications Students researchers and practitioners especially in the fields of data registration treatment and evaluation will find this a wealth of information

Introduction to Geophysics Christoph Clauser, 2024-04-17 This textbook on geophysics is a translated and revised edition from its third German edition Einf hrung in die Geophysik Globale physikalische Felder und Prozesse in der Erde Explaining the technical terminology it introduces students and the interested scientific public to the physics of the Earth at an intermediate level In doing so it goes far beyond a purely phenomenological description but systematically explains the physical principles of the processes and fields which affect the entire Earth Its position in space its internal structure its age and that of its rocks earthquakes and how they are used in exploring Earth s structure its shape tides and isostatic equilibrium Earth s magnetic field the geodynamo that generates it and the interaction between the Earth s magnetosphere and the solar wind s plasma flow the Earth s temperature field and heat transport processes in the core mantle and crust of the Earth and their role in driving the geodynamo and plate tectonics All chapters begin with a brief historical outline

describing the development of each branch of geophysics up to the recent past Selected biographies illustrate the personal and social conditions under which groundbreaking results were achieved Detailed mathematical derivations facilitate understanding Exercises with worked out results allow readers to test the gained understanding A detailed appendix contains a wealth of useful additional information such as a geological time table general reference data conversion factors the latest values of the natural constants vector and tensor calculus and two chapters on the basic equations of hydrodynamics and hydrothermics The book addresses bachelor and master students of geophysics and general earth science as well as students of physics engineering and environmental sciences with geophysics as a minor subject

Inverse Theory and Applications in Geophysics Michael S. Zhdanov, 2015-07-15 Geophysical Inverse Theory and Applications Second Edition brings together fundamental results developed by the Russian mathematical school in regularization theory and combines them with the related research in geophysical inversion carried out in the West It presents a detailed exposition of the methods of regularized solution of inverse problems based on the ideas of Tikhonov regularization and shows the different forms of their applications in both linear and nonlinear methods of geophysical inversion It is the first book of its kind to treat many kinds of inversion and imaging techniques in a unified mathematical manner The book is divided in five parts covering the foundations of the inversion theory and its applications to the solution of different geophysical inverse problems including potential field electromagnetic and seismic methods Unique in its focus on providing a link between the methods used in gravity electromagnetic and seismic imaging and inversion it represents an exhaustive treatise on inversion theory Written by one of the world's foremost experts this work is widely recognized as the ultimate researcher's reference on geophysical inverse theory and its practical scientific applications Presents state of the art geophysical inverse theory developed in modern mathematical terminology the first to treat many kinds of inversion and imaging techniques in a unified mathematical way Provides a critical link between the methods used in gravity electromagnetic and seismic imaging and inversion and represents an exhaustive treatise on geophysical inversion theory Features more than 300 illustrations figures charts and graphs to underscore key concepts Reflects the latest developments in inversion theory and applications and captures the most significant changes in the field over the past decade

Geophysics for Petroleum Engineers Fred Aminzadeh, Shivaji N. Dasgupta, 2013-12-09 Geophysics for Petroleum Engineers focuses on the applications of geophysics in addressing petroleum engineering problems It explores the complementary features of geophysical techniques in better understanding characterizing producing and monitoring reservoirs This book introduces engineers to geophysical methods so that they can communicate with geophysicist colleagues and appreciate the benefits of their work These chapters describe fundamentals of geophysical techniques their physical bases their applications and limitations as well as possible pitfalls in their misuse Case study examples illustrate the integration of geophysical data with various other data types for predicting and describing reservoir rocks and fluid properties The examples come from all over the world with several case histories

from the fields in the Middle East Introduces geophysical methods to engineers Helps understanding characterizing producing and monitoring of geophysical techniques Updates the changing needs of reservoir engineering Geophysical Potential Fields Lev Eppelbaum, 2019-07-18 Geophysical Potential Fields Geological and Environmental Applications Volume Two investigates the similarities and differences of potential geophysical fields including gravity magnetism temperature resistivity and self potential along with the influence of noise on these fields As part of the Computational Geophysics series this volume provides computational examples and methods for effectively solving geophysical problems in a full cycle manner Including both quantitative and qualitative analysis the book offers different filtering and transformation procedures integrated analysis and special interpretation methodologies also presenting a developed 3D algorithm for combined modeling of gravity and magnetic fields in complex environments The book also includes applications of the unified potential field system such as studying deep structure searching hydrocarbon and ore deposits localizing buried water horizons and rockslide areas tectono structural mapping of water basins and classifying archaeological targets It is an ideal and unique resource for geophysicists exploration geologists archaeologists and environmental scientists Clearly demonstrates the successive stages of geophysical field analysis for different geological and environmental targets Provides a unified system for potential geophysical field analysis that is demonstrated by numerous examples of system application Demonstrates the possibilities for rapidly and effectively interpreting anomalies receiving some knowledge of modern wavelet diffusion maps and informational approach applications in geophysics and combined gravity magnetic methodology of 3D modeling Includes text of the Geological Space Field Calculation GSFC software intended for 3D combined modeling of gravity and magnetic fields in complex environments Hydrogeophysics Yorum Rubin, Susan S. Hubbard, 2006-05-06 This ground breaking work is the first to cover the fundamentals of hydrogeophysics from both the hydrogeological and geophysical perspectives Authored by leading experts and expert groups the book starts out by explaining the fundamentals of hydrological characterization with focus on hydrological data acquisition and measurement analysis as well as geostatistical approaches The fundamentals of geophysical characterization are then at length including the geophysical techniques that are often used for hydrogeological characterization Unlike other books the geophysical methods and petrophysical discussions presented here emphasize the theory assumptions approaches and interpretations that are particularly important for hydrogeological applications A series of hydrogeophysical case studies illustrate hydrogeophysical approaches for mapping hydrological units estimation of hydrogeological parameters and monitoring of hydrogeological processes Finally the book concludes with hydrogeophysical frontiers i e on emerging technologies and stochastic hydrogeophysical inversion approaches **Basics of Computational Geophysics** Pijush Samui, Barnali Dixon, Dieu Tien Bui, 2020-11-27 Basics of Computational Geophysics provides a one stop collective resource for practitioners on the different techniques and models in geoscience their practical applications and case studies The reference provides the modeling theory in an easy to read format that is verified with

onsite models for specific regions and scenarios including the use of big data and artificial intelligence This book offers a platform whereby readers will learn theory practical applications and the comparison of real world problems surrounding geomechanics modeling and optimizations Covers various advanced computational techniques for solving different problems in geophysics including the use of Big Data and artificial intelligence Includes case studies that provide examples surrounding practical applications Provides an assessment of the capabilities of commercial software

Developments in Geophysical Exploration Methods A. A. Fitch, 2012-12-06 One facet of development in this field is that the methods of gathering and processing geophysical data and displaying results lead to presentations which are more and more comprehensible geologically Expressed in another way the work of the interpreter becomes progressively less onerous The contributions in this collection of original papers illustrate this direction of development especially in seismic prospecting If one could carry out to perfection the steps of spiking deconvolution migration and time depth conversion then the seismic section would be as significant geologically as a cliff face and as easy to understand Perhaps this is not yet achieved but it remains an objective brought closer by work such as that described by the authors The editor offers his best thanks to the contributors busy geophysicists who have written with erudition on this range of subjects of current interest A A FITCH v CONTENTS Preface v List of Contributors IX 1 Determination of Static Corrections A W ROGERS 2 Vibroseis Processing 37 P KIRK The 11 Norm in Seismic Data Processing 53 3 H L TAYLOR 4 Predictive Deconvolution 77 E A ROBINSON 5 Exploration for Geothermal Energy 107 G V KELLER 6 Migration 151 P HOOD Index 231 vii LIST OF CONTRIBUTORS P HOOD Geophysicist Geophysics Research Branch The British Petroleum Co Ltd Britannic House Moor Lane London EC2Y 9BU UK

Integral Transforms in Geophysics Michael S. Zhdanov, 2012-12-06 Integral Transforms of Geophysical Fields serve as one of the major tools for processing and interpreting geophysical data In this book the authors present a unified treatment of this theory ranging from the techniques of the transformation of 2 D and 3 D potential fields to the theory of separation and migration of electromagnetic and seismic fields Of interest primarily to scientists and post graduate students engaged in gravimetrics but also useful to geophysicists and researchers in mathematical physics

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