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GeoSite: Structure and Content

“All men by nature desire to know.”

(πάντες ἄνθρωποι τοῦ εἰδέναι ὀρέγονται φύσει)

— Aristotle, Metaphysics, Book I, 980a21

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Introduction

GeoSite is a personal professional information resource that brings together the results of the author's many years of scientific, methodological, software, and technological work in seismic exploration, seismic data processing and interpretation, imaging of the geological medium, and inverse-problem solving.

The site was created as a single access point to published books, monographs, individual chapters, scientific articles, preprints, educational materials, synthetic data sets, and documentation for the CubeTechnology software and technology system. A substantial portion of the site materials is openly available on international scientific and publishing platforms: CERN — Zenodo, ResearchGate GmbH (Germany) — ResearchGate, and CALAMEO SAS (France) — Calaméo; GeoSite brings these publications together into a single thematically organized system.

A special place is occupied by works devoted to the development of methods for seismic imaging and estimation of geological-medium parameters, multifocusing, seismic-stratigraphic stacking, migration and demigration, depth tomography, diffraction-component extraction, and the solution of the inverse dynamic problem in a viscoelastic medium.

A separate area of the site is devoted to the development and evolution of the CubeTechnology system, which has been created and refined for more than three decades. The site presents materials on the system's purpose, architecture, principal technologies, user interface, practical installation, and operation.

GeoSite also contains materials on the application of artificial intelligence in scientific research, including the author's dialogues with contemporary artificial-intelligence models on the methodology of science, inverse problems, and the characteristics of machine reasoning.

The site serves not only as an archive but also as a professional presentation resource. In particular, it contains materials intended to familiarize publishers with the second English-language edition of the book Subsurface Image and Parameter Estimation in Seismic Exploration, including the publication proposal and analytical materials concerning the book's contents.

GeoSite has Russian, English, and Chinese versions. The language can be switched directly at the top of the page.

Keywords: GeoSite; seismic exploration; seismic imaging; seismic data processing and interpretation; CubeTechnology; multifocusing; seismic-stratigraphic stacking; migration and demigration; depth tomography; inverse problems; viscoelastic medium; artificial intelligence in scientific research; scientific publications; digital scientific archive; proposal for publishers.

Site Contents

The site consists of the “Publications,” “CubeTechnology,” “Biography,” and “Contacts” pages, accessible from the main menu on the left panel.

“Publications” Page

The “Publications” page contains a list of scientific, educational, and methodological publications. The title of each item is an active hyperlink to the corresponding publication.

- *Subsurface Image and Parameter Estimation in Seismic Exploration* — forthcoming second English-language edition of the monograph.
  - PROPOSAL FOR PUBLISHERS
  - Analytical Review of the Book “Subsurface Image and Parameter Estimation in Seismic Exploration”
- CHAPTER 2. DERIVATIVES OF THE TRAVELTIME FIELD
- CHAPTER 8. SEISMIC-STRATIGRAPHIC MODELING AND STACKING. DEPTH TOMOGRAPHY
- CHAPTER 9. MIGRATION AND DEMIGRATION
- CHAPTER 11. INVERSE DYNAMIC PROBLEM IN A VISCOELASTIC MEDIUM
  - Synthetic VSP Wavefields and Results of Solving Inverse Dynamic Problems for a Visco-elastic Medium
- The first edition of the monograph “Imaging of Geological Sections and Velocity Estimation by the Common Depth Point Method” was published by VSEGEI Publishing House in 2014.

- Monograph "Methods for Multifocusing Seismic Data"
- SPECIAL COURSES IN SEISMIC EXPLORATION
- Publications on Zenodo: Statistics of Views and Downloads
- AUTHOR'S ARCHIVE OF RESEARCH MATERIALS PUBLISHED BY THE DIGITAL PUBLISHER CALAMEO
- Preprints on artificial intelligence:
  - Dialogues Concerning the Two Chief Principles — Reason and Life
  - Dialogue on the Thinking of Artificial Intelligence
  - Dialogue on the Role of Artificial Intelligence in Scientific Research: Inverse Problems in Seismic and Electrical Exploration
  - Transcript of a Conversation: Human and DeepSeek
- Local Oscillator Model of a Seismic Wave in a Viscoelastic Medium
- Identification of Permafrost and Thawed Zones from Seismic Data Using CubeTechnology

"CubeTechnology" Page

This page presents materials on the CubeTechnology seismic-data processing and interpretation system:

- CUBETECHNOLOGY. MORE THAN 30 YEARS OF DIGITAL EVOLUTION IN SEISMIC EXPLORATION
- System Documentation
- Practical Guide to Installing and Operating CubeTechnology with ChatGPT Artificial Intelligence Support
- Seismic-Stratigraphic Stacking (SSS) in CubeTechnology
- Extraction of the Diffraction Component in CubeTechnology
- Discussion of Graphical Output in CubeTechnology — Slide 20 "Visual Cube Multi Window Graphical User Interface"
- Key Advantages of CubeTechnology Compared with Russian and Western Counterparts
- Summary Information on CubeTechnology: Purpose, Capabilities, Architecture, and Areas of Application

“Biography” Page

The page contains biographical information about Sergey Alekseevich Gritsenko: education, scientific and industrial work, professional experience, and the principal areas of research and development. The biography contains active hyperlinks to related materials:

- Rigorous Proof of the Well-Known NIP Theorem
- CubeTechnology
- “Imaging of Geological Sections and Velocity Estimation by the Common Depth Point Method”
- *Subsurface Image and Parameter Estimation in Seismic Exploration*
- More Than 100 Scientific Publications
- Reviewing for the Journal Geophysics

The page also presents the principal stages of work at Sibneftegeofizika, the Institute of Geophysics of the Siberian Branch of the Russian Academy of Sciences, Revolution Geoservices Inc. (Canada), and VSEGEI, as well as information on the long-term development of CubeTechnology.

“Contacts” Page

The page provides the author’s email address: gritsenko1@yandex.ru

The same page contains a map of Russia marking the cities associated with the principal stages of the author’s scientific and professional activity: Novosibirsk, Saint Petersburg, and Kamensk-Shakhtinsky.

Site Language

The site is available in Russian, English, and Chinese. The language is switched using the “Site Language” control at the top of the page.

Conclusion

GeoSite is a unified professional resource that brings together the results of the author's many years of scientific, methodological, software, and technological work in seismic exploration. Its structure provides a consistent path from publications and scientific results to the CubeTechnology software system, biographical information, and contact details.

The principal value of GeoSite is that it does not duplicate publications already available online, but connects them into a unified system. Through hyperlinks, users obtain direct access to books, individual chapters, preprints, data sets, educational materials, documentation, and other publications hosted on Zenodo, Calaméo, and ResearchGate, as well as to published materials dating back to 1979.

A special place on the site is occupied by CubeTechnology — the result of more than thirty years of development of methods and software for seismic-data processing, imaging, and interpretation. The materials presented make it possible to consider the system in relation to the scientific problems for which it was created and applied.

A separate area of GeoSite is associated with current research on inverse problems and with the use of artificial intelligence in scientific work. This reflects the evolution of the site's subject matter from classical seismic-exploration methods toward new forms of computational and intelligent support for research.

The multilingual presentation of materials in Russian, English, and Chinese broadens the possibilities for using GeoSite as an informational, scientific, and professional presentation resource. It can serve to familiarize specialists, researchers, students, and publishers with the author's work and with the development of his scientific and technological ideas.

GeoSite is not only an electronic index of publications but also an integrated presentation of the principal areas of the author's scientific and professional activity. Its content can be expanded as new publications, materials, and research results appear.