

## Preface

This collection of articles is the result of complex studies for several years. The work aims to familiarize specialists in oil and gas field geology and development of hydrogen gas fields with new methods and methodological approaches proposed for wide use in practical activities.

The collection includes articles for the purpose of activating scientific creativity, exchange of experience in the implementation of new scientific and technological solutions developed by specialists of the oil and gas industry, employees of scientific organizations and higher educational institutions.

The articles cover a wide range of issues related to geological exploration, seismic exploration, development of hydrocarbon deposits, obtaining new geological, geophysical and field-geological information on productive deposits, application of innovative physical and chemical methods for increasing oil recovery, as well as related issues of geological modeling and oil and gas production planning at oil and gas production enterprises.

New methods and technologies increase the effectiveness of studying promising oil and gas areas, help identify new deposits and fields, and achieve higher oil recovery rates.

The materials of the collection can be useful for engineers, scientists, teachers, post-graduate students and students of geological study programs of higher educational institutions.