

<<压力分析的基础与应用FUNDAM>>

图书基本信息

书名：<<压力分析的基础与应用FUNDAMENTAL AND APPLIED PRESSURE ANALYSIS>>

13位ISBN编号：9781860940910

10位ISBN编号：1860940919

出版时间：1998-12

出版时间：Penguin

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页数：811

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内容概要

The analysis of well tests constitutes one of the most powerful tools for the effective description of a petroleum reservoir and its subsequent management. This requires that the well test be placed in the proper context of related disciplines, especially geoscience, production and reservoir engineering. Modern methods of automated data processing can conceal mathematical limitations and overlook the need for realistic physical and geologic models. This book emphasizes the plausible physical contexts and mathematical models and limitations, and also the importance of realistic geologic models in analysis. Although the book is clearly targeted at petroleum engineers, the approach taken by the authors will no doubt find favour with practitioners in other areas of fluid flow in porous media, such as hydrology and the flow of pollutants. Scattered throughout the book are worked examples of the use of the methods described in the text. It also contains extensive appendices on permeability, application of Laplace transforms to flow equations valid for single and multi-layered systems, convolution and deconvolution, dimensionless parameters and P-theorems, and physical and thermodynamic properties of gases. This book should appeal to students as well as practitioners in industry; many in the latter group may have benefited before from formal exposure to the underlying theory and its limitations in real reservoir environments.

书籍目录

ForewordPreface1 INTRODUCTION TO WELL TESTING 2 BASIC CONCEPTS AND EQUATIONS OF FLOW IN POROUS MEDIA3 SOLUTIONS TO THE DIFFUSIVITY EQUATION4 PRESSURE DRA WDOWN ANALYSIS5 PRESSURE BUILD UP ANALYSIS6 TYPE CURVES 7 GAS WELL TESTING8 AQUIFER AND WATER INFLUX9 AVERAGE PRESSURE10 WELL TESTING IN THE PRESENCE OF MULTI-PHASE FLOW11 LATERAL HETEROGENTITIES 12 WELL INTERFERENCE AND PULSE TESTING13 ANISOTROPIC PERMEABILITY AND ITS PREDICTON USING WELL TEST INTERPRETATION14 NATURALLY FRACTURED RESERVOIRS-DUAL POROSITY/DUAL PERMEABILITY SYSTEMS15 WELL TEST INTERPRETATION IN HYDRAULICALLY FRACTURED RESERVOIRS16 PRESSURE BEHAVIOUR OF INJECTION WELLS17 PARTIALLY PENETRATING WELLS AND SLANTED WELLS18 VERTICAL PERMEABILITY DETERMINATION19 WELL TESTING IN STRATIFIED RESERVOIRS20 HORIZONTAL WELL TESTING 21 PRESSURE ANALYSIS AND RESERVOIR CHARACTERISATION22 WELL TEST DESIGNAPPENDICESNOMENCLATUREBIBLIOGRAPHYINDEX

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