

1. Record Nr.	UNINA9911004769603321
Titolo	Casing design : theory and practice / / [edited by] S.S. Rahman and G.V. Chilingarian
Pubbl/distr/stampa	Amsterdam ; ; New York, : Elsevier, 1995
ISBN	1-281-07124-2 9786611071240 0-08-052860-0
Descrizione fisica	1 online resource (389 p.)
Collana	Developments in petroleum science ; ; 42
Altri autori (Persone)	RahmanS. S (Sheikh S.) ChilingarGeorge V. <1929->
Disciplina	622/.3381
Soggetti	Oil well casing - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Casing Design Theory and Practice; Copyright Page; Contents; PREFACE; CHAPTER 1. FUNDAMENTAL ASPECTS OF CASING DESIGN; 1.1 PURPOSE OF CASING; 1.2 TYPES OF CASING; 1.3 PIPE BODY MANUFACTURING; 1.4 CASING COUPLINGS AND THREAD ELEMENTS; 1.5 REFERENCES; CHAPTER 2. PERFORMANCE PROPERTIES OF CASING UNDER LOAD CONDITIONS; 2.1 TENSION; 2.2 BURST PRESSURE; 2.3 COLLAPSE PRESSURE; 2.4 BIAXIAL LOADING; 2.5 CASING BUCKLING; 2.6 REFERENCES; CHAPTER 3. PRINCIPLES OF CASING DESIGN; 3.1 SETTING DEPTH; 3.2 CASING STRING SIZES; 3.3 SELECTION OF CASING WEIGHT GRADE AND COUPLINGS 3.4 SUPPLEMENTARY EXERCISES 3.5 REFERENCES; CHAPTER 4. CASING DESIGN FOR SPECIAL APPLICATIONS; 4.1 CASING DESIGN IN DEVIATED AND HORIZONTAL WELLS; 4.2 PROBLEMS WITH WELLS DRILLED THROUGH MASSIVE SALT-SECTIONS; 4.3 STEAM STIMULATION WELLS; 4.4 REFERENCES; CHAPTER 5. COMPUTER-AIDED CASING DESIGN; 5.1 OPTIMIZING THE COST OF THE CASING DESIGN; 5.2 REFERENCES; CHAPTER 6. AN INTRODUCTION TO CORROSION AND PROTECTION OF CASING; 6.1 CORROSION AGENTS IN DRILLING AND PRODUCTION FLUIDS; 6.2 CORROSION OF STEEL; 6.3 PROTECTION OF CASING FROM CORROSION; 6.4 REFERENCES; APPENDIX A. NOMENCLATURE APPENDIX B. LONE STAR PRICE LIST APPENDIX C. THE COMPUTER

Sommario/riassunto

Casing design has followed an evolutionary trend and most improvements have been made due to the advancement of technology. Contributions to the technology in casing design have come from fundamental research and field tests, which have made casing safe and economical. This book gathers together much available information in the subject area and shows how it may be used in deciding the best procedure for casing design i.e. optimizing casing design for deriving maximum profit from a particular well. The problems and their solutions, which are provided in each chapter, and the computer program (