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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 PROGRAM; APPENDIX D. SPECIFIC WEIGHT AND DENSITY; INDEX

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 (
