

INCLUDES IADC
DRILLING MANUAL
11th Edition



drilling toolbox



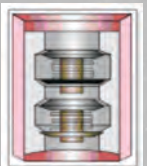
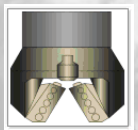
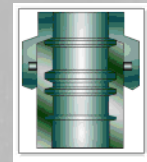
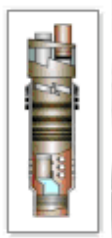
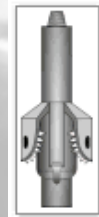
SPECIAL EDITION

Drilling Toolbox is an integrated suite of field-tested drilling applications designed for use by drilling engineers and professionals to improve productivity and efficiency. Drilling Toolbox offers the widest range of drilling applications available in a single software package.

All the modules were designed and developed by drilling engineers at one of the largest oil and gas companies in the world. All of the applications are tightly integrated to provide the user with the tools needed to be more productive. The Drilling Toolbox includes the following modules:

- ⇒ Hydraulics & Hole Cleaning
- ⇒ General Drilling Engineering
- ⇒ Cementing Calculation
- ⇒ Mud Management
- ⇒ Pressure Control
- ⇒ Drill String Design Calculations
- ⇒ Simple Casing Design
- ⇒ Drill Pipe Database
- ⇒ Halliburton Cementing Tables (Red Book)
- ⇒ Document/Applications Management Module

Includes over 100 drilling shapes to allow you easy preparation of professional drawings



TECHNICAL
TOOLBOXES

TECHNICAL
TOOLBOXES

Drilling Toolbox – Special Edition is a suite of field-tested drilling applications originally developed by one of the largest & innovative drilling companies in the world for use by drilling engineers and professionals. Technical Toolboxes updated the software to current Windows standards and markets the software. The software program consists of more than 40 software modules designed specifically for the drilling professional. The software includes the following functional engineering modules:

Hydraulics & Hole Cleaning

- Scott Bit Hydraulics
- Annular Hydraulics and Vertical Hole Cleaning
- Pressure Losses through Drill String
- Bit Hydraulics
- Surge and Swab Pressures – Drill String
- Surge and Swab Pressures - Casing
- Hydraulics Planning
- Circulating Pressure Loss in Drill String Annulus
- Circulating Pressure Loss in Casing Annulus

General Drilling Engineering

- Bit Break Even Calculations
- Drilling Temperature Profile

Cementing Calculation

- Balanced Plug Calculations

Mud Management

- Water Base Mud Retort Analysis
- Oil Base Mud Retort Analysis
- Solids Control Equipment Performance Analysis
- Drilled Solids Cost Removal Analysis
- Mud Planning
- Mud Weight Up
- Mud Dilution
- Soft Rock Controlled Drilling
- Solids Discharge Evaluation

Pressure Control

- Drilling Kick Tolerance
- Formation Fracture Pressures

Drill String Design Calculations

- Critical Rotary Speeds
- Bending Resistance Ratios
- Maximum Allowable Overpull
- Stuck Pipe - Free Point
- Maximum Allowable WOB

Simple Casing Design

- Gas Gradients – Surface Pressure
- Casing Buckling for Drilling Strings
- Tubing Movement and Stress Calculations
- Drilling Burst Load Lines
- Collapse Load Lines
- Production Burst Load Lines

International Association of Drilling Contractors (IADC) Drilling Manual 11th Ed.

Drill Pipe Database - Database of all API - 5D standard steel drill pipe.

Engineering Units Conversion Module

Document Management Module – Add your own WORD or PDF documents to customize your application.

Applications Management Module – Add your own Excel spreadsheets or vendor applications for your use.

Halliburton eRedBook (hyperlink) – A digital oilfield toolkit that provides users with interactive wellbore diagram tool, calculators, API pipe data, and other drilling technical data.

Drilling Shapes - includes over 100 detailed drilling shapes with on-line access to free software to allow you to design and produce your own professional drawings.

