RockWare Software, Consulting & Training.
For over 35 Years.
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## Use these symbols to find products by industry

- [Environmental](#)
- [Geotechnical](#)
- [Hydrology](#)
- [Mining](#)
- [Petroleum](#)

### Ordering Information

Phone: 303.278.3534 | Fax: 303.278.4099 | [www.rockware.com](http://www.rockware.com)

Europe: Phone: +41 91 967 52 53 | Fax: +41 91 967 55 50 | [www.rockware.com](http://www.rockware.com)

All major credit cards accepted. Prices subject to change.

800.775.6745 • [www.rockware.com](http://www.rockware.com)

Follow us on:
RockWare was founded in 1983 to provide geoscientific software and consulting to a variety of markets, including petroleum, mining, environmental and civil engineering. RockWare consists of geoscientists with a wide variety of technical knowledge and real world experience upon which customers rely for assistance with their projects, fast reliable analysis of their data, and litigation support using videos and graphics. RockWare’s ability to quickly create scientifically accurate, understandable, and appealing analyses, diagrams and videos has provided enormous benefit for our satisfied customers.

Support & Graphics for:
- Environmental
- Oil and Gas
- Mining
- Hydrogeological Sciences

Extensive expertise in:
- Geology
- Geomodeling
- Geochemistry
- Geomorphology
- Physics
- Hydrogeology
- Groundwater Modeling
- And much more

Modeling, volumetrics, graphics, and videos of virtually any type of subsurface data including:
- Contaminant Plumes
- Ore Bodies
- Reservoirs
- Well / Borehole Geophysics
- Reserve Estimates
- Field Mapping
- Site Characterization
- Digital Well / Borehole Log and Cross-Section Creation
- 3D Visualization
- Virtual Tour / Flyover Videos
You provide the data, we’ll provide the...

Maps

- Foundation Cracks Caused by Poor Site Preparation
- Insurance Risk – Flood Susceptibilities

Cross-Sections

- Correlated Petroleum Logs
- Cross-Sections within Formation Porosity Model

Three-Dimensional Diagrams

- Hydrocarbon Reservoir
- Contamination Plume from Leaking Surface Tank
Video Animations

- Time-Based Animation Depicting Changes in Foundation Level Moisture
- Site Overview: Viewer is gradually introduced to site via draped airphoto, followed by storage tanks, boreholes, stratigraphy and plume.

Volumetric Computations

- Material Volumetrics – Subway Tunneling Project
- Contaminant Plume Volumetrics

Please contact Consulting@RockWare.com, or call us at 1.800.775.6745 extension 4, for help with any of your consulting needs.
RockWorks is a comprehensive program that offers visualization and modeling of spatial data and subsurface data. Whether you are a petroleum engineer, environmental scientist, hydrologist, geologist, or educator, RockWorks contains tools that will save time and money, increase profitability, and provide you with a competitive edge through high-quality graphics, models, and plots.

Now 64-bit!

Download a fully-functional trial version at www.rockware.com

Professional Applications for RockWorks include:

- **Petroleum**
  - Well spotting, structural & isopach mapping, logs & cross sections, stratigraphic models and fences, production graphs (p. 7)

- **Environmental**
  - Borehole database for lithologic, stratigraphic, analytical data; point and contour maps, logs, cross sections, plume models (p. 8)

- **Mining**
  - Drillhole database for lithologic, assay, geophysical data; 2D and 3D log diagrams, block modeling, detailed volume tools (p. 9)

- **Geotechnical**
  - Borehole database for lithologic, geophysical, geotechnical data; logs, sections, surface/solid models, structural tools (p. 10)

RockWorks Feature Levels

Buy just the tools you need! All are offered with Annual (Rental), Single, or Concurrent (Network) Licenses. Starting prices are shown here. Bulk discounts are available.

- **RockWorks BASIC – Utilities and Logs & Log Sections**
  - $650 Rental | $1,500 Single | $2,625 Network
  - Create maps, models, charts, and diagrams in 2D and 3D from spatial and structural data in the program datasheet.
  - Create 2D and 3D log and log section diagrams from sub-surface data stored in the borehole database. (p. 11)

- **RockWorks STANDARD – Borehole Modeling**
  - $1,300 Rental | $3,000 Single | $5,250 Network
  - Interpolate 2D and 3D models, create 2D and 3D maps, cross sections, block models, and other diagrams from sub-surface data stored in the borehole database.
  - (Includes all BASIC programs.) (p. 13)

- **RockWorks ADVANCED – Professional**
  - $2,200 Rental | $5,000 Single | $8,750 Network
  - Connect to SQL-Server databases, utilize powerful automation tools, 3D faulting, custom land grids, well production diagrams, and the RockWare GIS Link.
  - (Includes all BASIC + STANDARD programs.) (p. 14)

**Etc...**

What’s new, system requirements (p. 14)
Petroleum

Mapping Tools

- Structure and isopach maps: contour maps with lines and color fills, custom color tables
- 3D surface displays
- Bubble maps of any well data (production, etc.)
- Well and lease spotting from Range, Township, Section descriptions
- Land grid and lease maps with section boundaries
- Coordinate systems: longitude/latitude, UTM, State Plane, local, custom
- Well location maps: customized symbols (e.g., well status), plan-view horizontal well traces
- Gridding algorithms: kriging, triangulation, inverse-distance, trend polynomial, more
- Grid model tools: filters, math operations, editor, imports and exports

Well Database Tools

- Cross sections: hole to hole and projected
- 3D fence diagrams
- Correlations: model-based and “EZ” panels
- Horizontal and vertical wells: 2D and 3D, flexible log layout
- Stratigraphic modeling of all/selected formations
- Solid modeling of lithologic, geophysical, geotechnical, geochemical data, with display as voxel or isosurface diagrams
- Geosteering: optimal well paths based on target formations, lateral and 3D displays
- Well database for well locations and miscellaneous well data, formation contacts, raster images, geophysical data, lithology, well construction, production, and more
- Data imports—Excel, LAS, LogPlot, IHS, KGS, Tobin, other databases
- Stratigraphic contacts from digital eLog data or raster logs

Other Tools

- Structural geology diagrams
- Graphic output: 2D and 3D output to RockWorks, Google Earth
- 2D editing tools: contour lines, text, shapes, legends, images
- Snapping tools for hand-drawn correlations
- Composite scenes in 3D with maps, logs, surfaces, solids, panels, surface objects
- Page layout program for small to large format presentations and posters
- Exports to GIS Shapefiles, CAD DXF, raster formats, Google Earth
- Image import, rectification, depth-registration
- Program automation
**Environmental**

**Mapping Tools**
- Borehole location maps with detailed data labels
- Contaminant concentration maps with lines and color fills, custom color tables, date filters
- Plan- and surface-based slices from 3D models
- Stiff diagram maps
- Time-graph maps for user-selected analytes
- Potentiometric surface maps
- Flow maps in 2D and 3D
- Coordinate systems: lon/lat, UTM, State Plane, local, custom

**Borehole Database Tools**
- Cross sections: multi-panel projected and hole to hole, with borehole logs and/or interpolated panels
- Correlations: model-based and “EZ” panels, snapping tools for hand-drawn correlations
- Borehole logs in 2D and 3D
- 3D fence diagrams
- Surface modeling of stratigraphic layers and water levels
- Plume modeling of analytical data, with display as voxel or isosurface diagrams, 2D plan and section slices
- Solid modeling of lithologic materials, geophysical and geotechnical measurements
- Volume reports of lithologic and stratigraphic models, contaminant extraction models
- Bulk data imports from Excel, text, LAS, other databases

**Other Tools**
- Time-based animations
- Piper and Durov diagrams with TDS circles, Stiff diagrams for multiple samples
- Water level drawdown diagrams and surfaces
- 2D editing tools: contour lines, text, shapes, legends, images
- Composite scenes in 3D with maps, logs, surfaces, solids, panels, surface objects
- Page layout program for small to large format presentations and posters
- Exports to GIS Shapefiles, CAD DXF, raster formats, Google Earth
- Image import and rectification
- Program automation
- Google Earth output directly from data: points, cones, lines, polygons, images, flyovers
**Mapping Tools**
- Drillhole location maps with detailed data labels
- Assay, concentration maps with lines and color fills, custom color tables
- 3D surface displays: topographic surfaces, stratigraphic units
- 3D point maps
- Geology maps: plan or surface-based slices from block models
- Multivariate maps: pie chart, bar chart, starburst, spider maps
- Coordinate systems: longitude/latitude, UTM, State Plane, local, custom

**Borehole Database Tools**
- Projected cross sections showing drillhole orientation
- Correlation panels: stratigraphy, lithology, grade/concentration, geophysics
- Drillhole logs in 2D and 3D with lithology, stratigraphy, bargraphs/disks, curves, color intervals, text
- Block model interpolation from XYZG point or drillhole data, display as voxels, isosurfaces, fence diagrams, 2D plan and section slices
- Surface model interpolation of stratigraphic units
- Downhole fracture display and modeling - closest fracture and closest fracture intersection
- Volume reports of lithologic, stratigraphic models
- Data imports: Excel, LAS, acQuire, Newmont, other databases

**Other Tools**
- Block model editor: 3D voxel/polyhedron editor, or slice-based
- Volume calculations: grade statistics by level, extraction reports, GT calculators, floating cones model extraction tools
- Stereonet and rose diagrams, stereonet and rose maps
- Ternary diagrams, frequency histograms for source data and models
- Graphic output: 2D and 3D output to RockWorks, Google Earth
- 2D editing tools: contour lines, text, shapes, legends, images
- Composite scenes in 3D with maps, drillhole logs, surfaces, blocks, panels
- Page layout program for small to large format presentations and posters
- Exports to GIS Shapefiles, CAD DXF, raster formats, Google Earth
- Image import and rectification
- Program automation
Geotechnical

Mapping Tools
- Multiple components in piechart, spider maps
- Point maps with detailed data labels
- Topographic contour maps with lines and color fills, custom color tables
- 3D surface displays
- Strike and dip maps in 2D and 3D
- Coordinate systems: longitude/latitude, UTM, State Plane, local, custom

Borehole Database Tools
- Cross sections: multi-panel projected and hole to hole, with borehole logs and/or interpolated panels
- Correlations: model-based and “EZ” panels, snapping tools for hand-drawn correlations
- Borehole logs in 2D and 3D
- 3D fence diagrams
- Surface modeling of stratigraphic layers and water levels
- Solid modeling of lithologic materials, fractures, and geophysical, geotechnical, geochemical data, with display as voxel or isosurface diagrams, 2D plan and section slices
- Geology maps: plan slices from stratigraphy or lithology models
- Volume reports of lithologic, stratigraphic, excavation models
- Fracture display and modeling, stereonet maps, rose diagram maps
- Munsell colors for display in logs and interpolation into color models
- Data imports: Excel, AGS, Colog, Fugro CPT, gINT, LAS, Penetrometer, other databases

Other Tools
- Sieve diagrams, ternary diagrams with classification overlays
- Stereonet and rose diagrams
- Slope/aspect analysis on grid models
- Predictive tools: lithology materials from curves, interval data (porosities, strength, cohesion) from lithology
- 2D editing tools: contour lines, text, shapes, legends, images
- Composite scenes in 3D with maps, logs, surfaces, solids, panels, surface objects
- Page layout program for small to large format presentations and posters
- Exports to GIS Shapefiles, CAD DXF, raster formats, Google Earth
- Image import and rectification
- Program automation
- Google Earth output directly from data: points, cones, lines, polygons, images, flyovers
Data Management Tools

- Built-in Project Manager for easy access to data and output files in your project
- Flat, spreadsheet-style datasheet for entering row and column spatial data
- Multiple column types—spatial data, graphical items, file links
- Numerous data import and exports: Excel, text, shapefiles, GPS points/tracks
- Coordinate conversion tools: longitude/latitude, UTM, US State Plane, local coordinates; 30+ datums; convert US Public Land Survey (range/township/section) locations using the free RockWorks “LandBase”
- Field Data interface for entry and processing of data from tablet devices
- Digitizer for capturing points from scanned maps

Program Output

- Point Maps—unique symbols, colors, labels; 2D bubbles and 3D spheres; Stiff diagram maps; piechart, starburst, spider maps
- Land Grid Maps—Well and lease spotting using free RockWare LandBase, Range/ Township/Section boundary maps
- Grid Modeling—12 interpolation methods for XYZ data, grid math/resampling/ filtering/editing tools; grid imports and exports
- Contour Maps and 3D Surfaces—line and color contour maps, 3D surfaces with color, shading options; image, DXF and Shapefile draping
- Solid (Block) Modeling—8 interpolation methods for XYZG data; model math/resampling/filtering/editing tools; model imports and exports
- Volumetrics—easy reports for X,Y, thickness data; detailed grid-based reports; pit optimization with 3D block models; grade-thickness models and reports
- Survey Tools—lateral and 3D geosteering diagrams; optimal well bore surveys; bearing/inclination/distance surveys -> XYZ points
- Statistical Tools—statistics reports; frequency histogram plots; scatter plots with best fit lines; ternary diagrams; sieve diagrams
- Hydrology/Hydrochemistry Tools—Theis drawdown diagrams and models; Piper and Durov diagrams with TDS circles; Stiff diagrams and maps
- Structural/Directional Tools—fracture maps and densities; rose diagrams, stereonets; strike and dip maps; plane rotation and intersection
- Image Tools—raster image import, rotate/scale/clip options; digitizer; image display as planes, panels, draped; solid color models from vertical panels
- Coordinate Conversions—for single points or lists
- 3D tanks, buildings, arrows, tubes, discs, spheres
- EarthApps—point, line, polygon, survey maps; images; flyovers in Google Earth

RockWorks17
®    
Feature Levels
RockWorks BASIC
RockWorks Utilities

Enter a variety of spatial or sample data into the datasheet and create maps, models, charts, and diagrams in 2D and 3D—an indispensable collection of mapping, modeling, and display tools.
Data Management Tools

- SQLite or MDB database for storing downhole lithology, stratigraphy, analytical, geophysical, geotechnical, structural, water level, color and well construction data
- Project Manager for easy access to data, models, and graphics in your project directory
- Interactive depth-registration for raster logs
- Stratigraphy and lithology contact pickers
- Simple and complex data queries
- Excel, AGS, LAS, IHS, KGS, Tobin WCS, LogPlot, gINT, Fugro CPT, database, text imports
- Excel, LogPlot, Shape, Google Earth, text exports
- Borehole location and measurement units in feet or meters
- Local, UTM, U.S. State Plane, PLSS coordinates
- Easy customization of the borehole location tables to include any kind of reference information

Program Output

- 2D logs, log profiles, projected sections, and hole-to-hole cross sections; 3D logs
- Simple stratigraphy, interval-data, and point-data correlation panels
- Click and drag log designer for 2D and 3D log layout
- Inclined and horizontal logs in both 2D and 3D
- Interactive map for selecting profile and cross section locations or for importing from saved lists in the database
- Background images in section location maps
- Hand-drawn correlations with new snapping tools
- Borehole location maps with detailed data labels, miniature logs, non-vertical well traces
- XYZ coordinates from borehole surveys
- Optimal well paths based on XYZ points
RockWorks16® Feature Levels

RockWorks STANDARD
Borehole Modeling

Enter borehole or well data into a database and create 2D and 3D maps and models, cross sections, fence diagrams, isosurface and voxel diagrams. (Also includes all BASIC Level features, previous pages.)

Data Management Tools

- All of the borehole database tools, imports, exports from BASIC Level (previous page)
- Geotechnical values from lithology data
- Lithology prediction from curve data
- Uranium grade computations based on gamma counts
- Curve data resampling

Program Output

- Surface-based modeling of stratigraphy and aquifer data
- 2D iso-concentration maps based on downhole water and soil chemistry information
- 3D solid modeling of lithology, analytical, assay, geophysical, geotechnical, fracture, vector, and color data
- 2D cross sections, profiles, projected cross sections, and contour/geology maps slicing through all model types
- 3D fence diagrams slicing through all model types
- Numerous gridding and solid modeling algorithms
- Model filtering based on value range, spatial boundaries, other models
- On-the-fly volume calculations of surface-based and 3D solid models
- Detailed volume reports from stratigraphic and solid models
RockWorks ADVANCED Professional Level

Offers all of the features of BASIC and STANDARD, described on the previous pages. AND includes these professional features...

Data Management Tools
• All of the data tools from BASIC and STANDARD
• Support of MS SQL-Server databases
• Import commercial (PLSS) landgrids

Program Features
• Program Automation/Scripting: The RockWare Command Language (RCL) is a powerful tool for automating program operations and is very easy to use. It’s indispensable for projects which require multiple models and diagrams, receive new data, and/or need QA/QC tracking of settings.
• No programming required!
• 3D Faulting: Define single or multiple fault polylines with dip/direction/extent and use these for modeling of surfaces or solids to create fault barriers.
• Store well Production data in the database and generate production diagrams in 2D, 3D and Google Earth.
• Includes the RockWare GIS Link

Etc...

What's New
• 64-bit processing for larger, higher-resolution models
• Multi-threading for faster modeling
• 3D Faulting for solid (block) models, surface models, and stratigraphy models
• New QuickMap view for borehole locations
• SQL Lite (default) or MDB for local databases
• Production table in database and full suite of well production diagrams
• GeoBody filter for grouping block model values

System Requirements
• Windows 7, Windows 8, or Windows 10
• RockWare Network License Administrator (for Network license) requires Windows Server 2003 or higher
• 64-bit operating system
• 2+ GB RAM
RockWare GIS Link

$399

Generate RockWorks strip logs, cross-sections, profiles, fence diagrams, and contour maps using ArcMap and RockWorks. (Is included in RockWorks Advanced Level.)

Program Features

- Install the RockWare GIS link as a toolbar in ArcMap.
- Import your RockWorks borehole locations as a layer in an ArcMap geodatabase.
- Create a 2D strip log for any borehole location using the RockWorks engine.
- Create 2D profiles, 2D cross-sections, and 3D fence diagrams for any of these data types: lithology, stratigraphy, water levels, interval-data, time-data, point-data, and fractures.
- Create either straight-line or interpolated diagrams for stratigraphic data.
- Create line- or color-contour maps of ground surface elevations, formation tops, or formation thickness, and display them as a DXF layer in ArcMap.
An easy-to-use log plotting program with a flexible log layout. Plot single-page logs for shallow borings or multi-page/continuous logs for deep wells. LogPlot has been widely used in the environmental, geotechnical, petroleum, and mining industries since 1983.

Download a trial version at www.rockware.com

**LogPlot®**

The Log Designer

The Log Designer allows you to quickly design borehole and well logs and modify existing design templates.

- Easy to use, with point, click, multiple-select and alignment capabilities
- Multi-pane re-vamped design window displays headers, footers, and log body (NEW)
- Two header and footer designs, full page report header
- Well information linking between data file and header/footer fields
- Macros for dates, page numbers and well locations
- Header/footer images, patterns, symbols, curve and bargraph legends, notes and text
- The log body can include any number and combination of columns, including lithology patterns and descriptions, cuttings percent columns, single and cross-plot curves, bargraphs, interval and point-based text, tadpoles, fracture traces (NEW), well construction, raster images, fillbars, water levels and other symbols, and scale bars

The Data Editor

Type, copy/paste and or import your log data into the Data Editor.

- Tabbed data sheets with a flexible layout, for easy data entry (NEW)
- Data sheets added on the fly, or automatically updated from the log design
- Double-click access to RockWorks borehole records, data can now be extracted from and written directly to the RockWorks17 database (NEW)
- Data import from LAS, Excel, DBF, AGS (NEW) and text
- Data export to LAS, Excel and RockWorks
- Data types: lithology/stratigraphy, interbeds, cuttings percent-ages, curves, interval and point-based data and text, general comments, header/footer text and notes, symbols, fillbars, downhole survey, tadpoles, fractures and well construction
- Easy linking of keywords (“sandstone”) to graphic patterns and colors
The Log Viewer

- Create paginated or continuous logs
- Compile and display multiple logs at once
- Quickly re-display logs at any scale and adjust header/footer settings (NEW)
- Use your mouse to view depth/elevation at any point on the log
- Graphic export options include PDF (NEW), HTML (for display online), BMP, JPG, TIF, and PNG
- Print your log, export an image of a single page, or export all pages in a single image

Other New Features in LogPlot8

New Patterns – The LogPlot Pattern Editor now supports the new pattern library with filled shapes and an unlimited number of items.

New Streamlined Interface – The LogPlot Data Editor, Log Designer and LogViewer have been redesigned for use on multiple monitors and to make the creation and modification of logs easier than ever.

New Log Data Tools

- New text formatting for text descriptions – bold, italic, underline, color, superscript, subscript or symbols
- New wavy and thick contact lines for display in Lithology pattern columns
- LogPlot now supports Unicode for non-Latin characters
- New tools add increased flexibility when defining data page names and columns
- New Data Templates to store customized data entry forms

New Log Display Tools

- Header/Footer symbol and pattern legends
- Log body fracture columns and water level symbols
- Offset options for interval text columns
- New color gradient options for log body curves
- New static text macros
- Curve/bargraph headers that can move when the column location is adjusted
- Rotated Header text and notes

New Network License Manager

- Easy to set up
- Borrow a license for use in the field

The Log Viewer

- Create paginated or continuous logs
- Compile and display multiple logs at once
- Quickly re-display logs at any scale and adjust header/footer settings (NEW)
- Use your mouse to view depth/elevation at any point on the log
- Graphic export options include PDF (NEW), HTML (for display online), BMP, JPG, TIF, and PNG
- Print your log, export an image of a single page, or export all pages in a single image
Environmental

- Soil and rock type symbols and descriptions
- Sample symbols, names, descriptions and data
- VOC data collected from MIP or other sampling devices
- OVA/PID data
- Borehole geophysics
- Detailed well construction diagrams, including nested wells
- Water level data
- Water and soil contamination information
- Blow counts, RQC and other geotechnical parameters

Geotechnical

- Soil and rock type symbols and descriptions
- Blow counts, RQD and other geotechnical parameters
- Core symbols and data, including Recovery and RQD
- Fracture information, including spacing, orientation and aperture
- Sample symbols, names, descriptions and data
- Borehole geophysics
- Atterburg Limits
- Grain Size and sieve analysis results
- Water level data
- Water and soil contamination information
- CPT data, plotted as curves or colored intervals
LogPlot® Professional Applications

**Mining**
- Soil and rock type symbols and descriptions
- Core symbols and data, including Recovery and RQD
- Assay results
- Munsell Color Codes
- Fracture spacing, filling and orientation
- Alteration, mineralization and oxidation values
- Casing and well construction
- Water level data

**Oil & Gas**
- Well/borehole geophysics
- Gas curves
- Drilling rate, RPM and Weight on Bit
- Lithologic Cuttings data
- Formation tops and descriptions
- Casing and perforation diagrams
- Drill Stem Test intervals
- Fossils
- Core data, including intervals and fractures
- Pay zones and show intervals
Still storing your water analysis in Excel®? AqQA was created with water engineers and aqueous geochemists in mind—or for that matter, anyone who keeps water chemistry data in a spreadsheet. Analyzing your water testing data is as easy as 1, 2, 3 with AqQA:

1) Paste your water analysis data in the “Data Sheet” tab
2) Click on the “Data Analysis” tab to check water testing data for internal consistency, and view other calculated water properties
3) Use the “New Graph” tab to create publication quality graphics — includes Piper diagram, Stiff diagram and 9 other plot types

Download a trial version at www.rockware.com

$349

AqQA features

• Six tests for water data consistency according to AWWA 1030-E Standard Methods.
• 11 plot types: Series, Time Series, Cross Plot, Ternary, Stiff, Piper diagram, Durov, Schoeller, Ion Balance, Pie Chart and Radial Plot.
• Calculates carbonate equilibria, TDS, density, conductivity, hardness and more.
• Flags violations of water quality standards.
• Check replicates and standards
• 200 pre-defined analyte types — inorganic, organic, biological assay, radioactivity, isotopes—or define your own.

With the AqQA spreadsheet, you can:

• Paste data directly from Excel.
• Convert units with a mouse click – no more keying in mole weights.
• Use common spreadsheet tools such as copy, paste, transpose, sort, and many others.
• Compare replicate analyses and check standards.
• Mix samples.
• Flag exceedances of regulatory limits.
• Check for internal consistency against AWWA standards.
• Calculate fluid properties such as water type, TDS, hardness, conductivity and carbonate speciation.
• Calculate calcite saturation and CO2 fugacity.
• Quickly create Piper, Stiff, Ternary, Durov, and 7 other plot types.
Solve Challenging Subsurface Flow Problems with PetraSim

PetraSim is the graphical interface for the TOUGH family of simulators. Developed at Lawrence Berkeley National Laboratory, TOUGH2 and its derivatives are recognized for their broad range of subsurface simulation capabilities, including heat and multi-phase flow and reactive transport. PetraSim helps you access the power of TOUGH2 in an integrated 3D environment that includes mesh generation, parameter definition, execution, and display of results. Save valuable time and increase model reliability with PetraSim.

Download a trial version at www.rockware.com

$ Call for pricing

Interfaces

• **TOUGH2**(*)—for multi-phase fluid and heat flow in porous and fractured media.

• **TOUGH2-MP**(*)—parallel version of TOUGH2 code.

• **T2VOC**—for 3-phase flow of water, air, and a volatile organic compound.

• **TMVOC**—for 3-phase flow of water, gas, and a multi-component mixture of volatile organic compounds.

• **TOUGHREACT**(*)—for coupled modeling of subsurface multiphase fluid and heat flow, solute transport, and chemical reactions.

• **HydrateResSim**(**)—for simulating behavior of hydrate-bearing geologic systems.

* A standard PetraSim license includes TOUGH2, T2VOC, TMVOC and TOUGHREACT v1.2 simulators. Use of TOUGH v2.1 and v3, TOUGHREACT v2 and v3, and TOUGH2-MP requires the purchase of the simulator through Lawrence Berkeley National Laboratory in addition to the PetraSim interface.

** HydrateResSim is a free simulator available through the National Energy Technology Laboratory of the U.S. Department of Energy.
With PetraSim you can:

- Create complex flow, reactive transport and heat transfer models.
- Dramatically reduce TOUGH2 model creation time.
- Eliminate TOUGH2 input errors.
- Use the intuitive toolbar for step-by-step guidance.
- Select from the many fluid property options for your model.
- Use enhanced TOUGH2 simulators available only with PetraSim.
- Import well data in batch ASCII files.
- Interactively create and edit 3D and axisymmetric grids.
- Import rotated XYZ layer geometry and define conforming grids, or import Petrel/Eclipse grids.
- Define irregular model boundaries and grids using Voronoi tessellation.
- View graphs of relative permeability and capillary pressure functions.
- Use dialogs to define solution and output controls.
- Seamlessly run TOUGH simulators using the executables integrated into PetraSim.
- Graphically monitor the solution progress.
- Display 3D iso-surfaces, 3D block plots, and vertical and horizontal slices.

- Create time history plots of individual cell results, connections and wells.
- Use line plots to display results along any 3D line or well trace.
- Export result data in comma separated variable format.
- Solve large problems using TOUGH2-MP (parallel version).

Applications for PetraSim and the simulators it supports include:

- Coupled process modeling (thermal, hydrologic, chemical, mechanical, biological).
- Carbon sequestration and hydrocarbon recovery.
- Methane hydrate dissociation and recovery.
- Performance assessment of nuclear waste repositories.
- Geothermal reservoir studies.
- Vadose zone hydrology.
- Fate and transport of volatile organic compounds.
- Design and analysis of laboratory and field experiments.

Fluid Properties Modules

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<td>T2VOC</td>
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<td>TMVOC</td>
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<td>HydrateResSim</td>
<td>Hydrates</td>
<td>HydrateResSim</td>
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</table>
With Adaptive Groundwater you can:

- Quickly create three-dimensional flow and transport models
- Significantly reduce model development cost
- Develop very-large, high-resolution regional models because the parallel AMR technique breaks large problems into many small parts
- More accurately and efficiently compute hydraulic head and solute concentration solutions because grid refinement is automatically added in regions of high head and/or concentration gradients
- Quickly change the grid resolution by simply varying the number of AMR levels
- Accurately simulate thin and highly-stratified plumes because the higher-order Eulerian-Lagrangian transport solution significantly reduces numerical dispersion
- Be fully prepared for future parallel computer architecture enhancements (i.e., multiple-core processors) because the software is fully multi-threaded
- Use much larger time steps when simulating advection-dominated transport
- Reduce computational effort because the simulation time step is automatically adjusted based on the velocity field and cell sizes (i.e., Courant number)
- Visually monitor simulation progress during model runs
WellCAD is a PC based composite log package, which combines comprehensive graphic editing mechanisms and data processing tools. Combining technically excellent display, editing and analysis capabilities for well data, WellCAD has become the standard log composite software in the Mining, Oil and Gas and Geotechnical industries and is used in a wide range of applications.

Download a trial version at www.rockware.com
Starting at $3,682 (Includes 1 year of maintenance)

Features
• **Import/Export**—ASCII, CSV, TXT, LAS, BMP, JPG, TIF, GIF, plus many more industry specific formats.

• **Data Presentation**—2D and 3D borehole display of images, curves, intervals, points, lithology, stratigraphy, text, symbols, stacking patterns, biostratigraphy, engineering details, and more.

• **Depth Management**—Multiple depth management (time, depth, TVD) plus an advanced depth matching tool.

• **Editing**—Slice, shift, merge, resample, and filter curves with results displayed alongside the original data.

• **Computations**—Formula parser (curve calculator with multiple discriminators).

Optional Modules
• **Image & Structure Interpretation Module**—Borehole Image and Structure/Breakout Analysis.

• **CoreCAD**—Interactive digital core description.

• **Full Wave Processing Module**—Sonic Data Processing and Velocity Analysis.

• **LIS/DLIS Module**—Import LIS/DLIS data.

• **Deviation Module**—3D well path visualization.

• **Multiwell Module**—Borehole and correlated cross-sections.

• **ODBC Connector Module**—Load and save data from/to ODBC compatible databases.

• **Automation Module**—Automate your workflow using COM components.
GS+™

GS+ is a comprehensive geostatistics software program that is fast, efficient and easy to use. GS+ provides all geostatistics components, from semivariance analysis through kriging and mapping, in a single integrated software program widely praised for its flexibility and friendly interface. Many users are surprised that geostatistical analysis can be so easy and intuitive. GS+ output is compatible with industry standards, can be used directly with many other programs, and accepts data files with as many as 2 billion records.

Download a trial version at www.rockware.com

$399

Surfer®

A contouring and 3D surface mapping program that quickly and easily converts your data into outstanding contour, surface, wireframe, vector, image, shaded relief, and post maps. Virtually all aspects of your maps can be customized to produce exactly the presentation you want using Surfer’s software tools. Producing publication quality maps has never been quicker or easier.

Download a trial version at www.rockware.com

$849
AQTESOLV is the original all-in-one package for the design and analysis of aquifer tests. From entry of field data to test analysis and report generation, AQTESOLV offers a complete and easy-to-use set of tools for the interpretation of pumping tests, slug tests and constant-head tests. Recently added features include the Agarwal method for recovery analysis, distance-drawdown plots, horizontal wells, groundwater mounding tools and automatic image well generation for bounded aquifers. AQTESOLV is the only aquifer testing package to feature an important new solution by Tartakovsky and Neuman (2007) for pumping tests in unconfined aquifers including effects from the unsaturated zone.

Download a trial version at www.rockware.com

Starting at $500

A Complete Package
- Data entry wizards
- Import wizard
- Diagnostics and derivative analysis
- Solution expert
- Visual curve matching
- Automatic curve matching
- Interactive sensitivity analysis
- Statistical analysis of results
- 17 plots and reports
- Contouring
- Test design and drawdown prediction
- Context-sensitive help

Comprehensive Test Methods
- Pumping tests
- Variable-rate tests
- Recovery tests
- Intermittent pumping tests
- Injection tests
- Step-drawdown tests
- Single-well tests
- Slug tests
- Constant-head (constant-drawdown) tests

Advanced Solutions
- Double-porosity models
- Single-fracture models
- Generalized radial flow model
- Horizontal wells
- Interceptor trenches
- Confined/unconfined conversion
- Water-table aquitard
- Wedge-shaped aquifers
- Channel aquifers
- Nonuniform aquifers
- Oscillatory slug tests
- Groundwater mounding
Groundwater Vistas is a state of the art software package for 3D groundwater flow and contaminant transport modeling, calibration and optimization using the MODFLOW suite of codes. The advanced version of Groundwater Vistas provides the ideal groundwater risk assessment tool, with Monte Carlo versions of MODFLOW, MODPATH and MT3D and stochastic processing features.

Download a trial version at www.rockware.com

$ Call for pricing

Models included in Groundwater Vistas
- MODFLOW USG
- MODFLOW 2005
- MODFLOW 2000
- MODFLOW96 Double Precision
- MODFLOW88
- MT3DMS
- SEAWAT
- RT3D
- MODPATH
- Brute Force
- MODOFC
- SOMOS
- MGO
- PEST-ASP
- UCODE

Models supported by Groundwater Vistas
- MODFLOWT
- MODFLOW-SURFACT
- SWIFT
- MT3D’99
- PATH3D

Other Features
- 64-bit available for the Advanced Version and higher.
- Displays both plan and cross-sectional views.
- 3D visualization using GW3D.
- Run all supported models from within GV.
- Advanced PEST support.
- Automated parameter sensitivity analysis.
- Imports-exports data from ArcView.
- Imports existing MODFLOW models.
- Imports data from SURFER and ASCII files.
- Export results to SURFER, Slicer, DXF, BMP, WMF, EarthVision, EVS, Tecplot and ASCII files.
- Overlay maps in DXF and SURFER BLN formats.
- Full on-line context-sensitive help.
AquiferWin32™ is for the analysis and display of aquifer test results. It combines powerful data management capabilities with everything you would expect in a Windows™ program and displays an unlimited number of type curves for multiple-type curve techniques. Other features include simultaneous optimization of multiple data sets, full control of parameter and data units, site map and wells displayed in plan view, customizable headers/footers supporting Bitmaps and Metafiles, exports to DXF and Metafile formats, customizable graphs and much more. AquiferWin32 now includes WinFlow, an easy to use flow and transport tool.

Download a trial version at www.rockware.com
$650
ChemPoint Pro®

ChemPoint Pro is a complete data management and reporting solution for air, soil, surface water, ground water, ash, sludge and bio-tissue data analysis. ChemPoint Pro tracks facility information, sampling locations, sampling dates, monitoring well construction, sample containers, and laboratory analysis results, along with all the related information. There is support for multiple sample containers for a location, duplicate analysis, split samples and replicate measurements. ChemPoint Pro users can export data in a format compatible with most commercial statistical analysis applications. When you purchase ChemPoint Pro, you automatically receive a free copy of ChemStat.

Download a trial version at www.rockware.com


Download a trial version at www.rockware.com

$1,490

$990
DeltaGraph enables you to tell your story with the perfect chart for your data. DeltaGraph goes beyond the limits of everyday graphing software with an unrivaled selection of chart types and unprecedented formatting flexibility. Make your work stand out and distribute your charts virtually anywhere. And, because DeltaGraph is available for both Macintosh and Windows platforms, you are virtually unlimited in your application of high-powered, visual communication.

Download a trial version at www.rockware.com
$299 (Mac / Windows)

Features

• Analyze your data with DeltaGraph’s Formula Builder and 50 mathematical and statistical functions; or, fit a curve to your data with advanced regression tools.
• Visualize your results the way you want with DeltaGraph. With over 80 different chart types and 200 different styles, both 2-D and 3-D, you have a choice of business and technical charts.
• Customize your charts using DeltaGraph. You have complete control. Nearly every chart element is customizable in color, font, style, and location.
• Get results quickly and easily. DeltaGraph’s Chart Advisor shows you the charting options for your data, and will even recommend a chart type and style based on the type of data and audience.
• Share your results with the highest quality output, both on screen and in print, thanks to PANTONE® color matching.
Grapher™

Grapher is easy-to-understand technical graphing software for anyone who needs to create publication-quality graphs quickly and easily. Display your data in one of more than 30 different graph types. Combine multiple graph types to present your data in a completely new way. Alter a property of any of the graph types to create compelling new graphs.

Download a trial version at www.rockware.com
$489

Oriana™

Oriana for Windows calculates the special forms of sample and inter-sample statistics required for circular data (e.g. angles or directions measured in degrees, time of day, day of week, month of year, etc.). The analyses include basic statistics such as mean vector and confidence limits, single sample distribution tests like Rayleigh's, pairwise and multisample tests such as Watson-Williams F-Test and chi-squared test, and pairwise correlations. It also graphs your data in a variety of ways, including rose diagrams, allowing you to easily demonstrate patterns.

Download a trial version at www.rockware.com
$475
StereoStat™

An integrated platform for organizing, manipulating, visualizing and interpreting geological datasets, RockWare StereoStat is a must-have software for anyone who needs high quality rose diagram, stereo and tangent plots. Features include lower/upper hemisphere and equal area/angle plots, 1% and Kamb contouring, moving-window smoothing, star plot generation, Fisher statistics, principal components least-squares analysis, object intersection, inter-object angles, paleostress analysis, interactive graphical data selection, plotting and subsetting based on attributes, bias compensation, data decimation and much more.

Download a trial version at www.rockware.com

$299

IgPet™

IgPet provides tools for teaching and research in Igneous Petrology, allowing users to develop their own data files and use graphics routines to discover and interpret patterns of geochemical variation. IgPet draws most types of petrologic diagrams including Harker, Fenner, triangular and log plots. A calculator includes (+ - / %), Log, square, square root, ppm and chondrite functions. Special purpose diagrams, e.g. the Irvine and Baragar (1971) rock classification scheme, are stored in control files that can be expanded easily. CMAS projections include O’Hara, Walker, Grove, Baker and Eggler, etc. Spider diagrams include REES, Wood, Thompson, Sun and McDonough, etc.

$289
RockPack III is a package of programs useful for all phases of rock slope analysis and design where stability is controlled by the orientations and characteristics of rock mass discontinuities (joints, bedding, foliations, faults, etc). RockPack III is applicable to practically all rock excavations, including highway roadcuts, quarries, mines and building excavations.

Download a trial version at www.rockware.com

$875

**Kinematic Stereonet Analyses**
- Based on simple CSV text files.
- Plot planar data as Dip Vectors or Poles to Planes.
- Dynamically draw great circles.
- Markland’s test for showing Slope Face, Friction Circle, Critical Zone and Toppling Zone.

**Other Features**
- Imperial or Metric units.
- Seismicity and surcharge considered in the PLANE program.
- Artificial support design for PLANE, WEDGE and TOPPLING programs.
- Water pressure considered in WEDGE analyses.

**Factor of Safety Models**
- **PLANE**—for calculating the safety factor against translational sliding along discontinuities in a rock mass.
- **RAPWEDGE** (rapid wedge)—for calculating the factor of safety against translational sliding of a wedge created in a rock mass by two intersecting discontinuities, whose line of intersection daylight in the slope face.
- **CMPWEDGE** (comprehensive wedge)—for calculating the factor of safety for a wedge effected by a tension crack and water pressure in the tension crack.
- **TOPPLE**—for quantitatively examining potential topples once they have been identified.
MapInfo Professional® is a powerful mapping and geographic analysis application. Designed to easily visualize the relationships between data and geography, MapInfo Professional helps business analysts, planners, GIS professionals – even non-GIS users – gain new insights into their markets, share information-rich maps and graphs and improve strategic decision-making.

Download a trial version at www.rockware.com
$ Call for pricing

MapInfo Professional expands location intelligence
• Discover trends hidden in spreadsheets and charts.
• Perform powerful data analysis and calculations.
• Create custom maps and content for analysis.
• Now 64 bit for faster computing, better graphics and larger files.

Use geographic insights to innovate business processes
• Manage location-based assets, people and property.
• Optimize service and sales territories for greater efficiencies.
• Deploy networks, infrastructure and utilities with confidence.
• Map resources, plan logistics and prepare for emergencies.

Data creation and editing
MapInfo Professional provides CAD data creation and editing tools to edit your tabular data such as values and names. Make all of your map and data changes in one application.

Display
Map display options are a great strength of MapInfo Professional. You can instantly shade, change style or mark territories, boundaries, highways, fiber lines or points based on any tabular data values through a simple wizard (using symbols, graduated symbols, charts or graphs).

Data and map publishing
MapInfo Professional provides a spectrum of options for this purpose. From the ability to export data to any format, to publishing large maps with legends and charts, MapInfo Professional seamlessly integrates across applications. In addition, MapInfo Professional is Web-enabled to publish static or interactive maps through easy-to-use wizards.

Data access
MapInfo Professional provides built-in support to access and view a variety of data formats directly. View your Microsoft Excel®, Microsoft Access®, Oracle®, Microsoft® SQL Server and many other file formats directly. You can also view images of virtually any format.
Datamine Discover MapInfo bundle is the desktop Geographical Information System (GIS) running with MapInfo designed especially for the geosciences, providing the tools to effectively compile, visualize, analyze and map spatial geoscience data.

**Download a trial version at www.rockware.com**

**$ Call for pricing**

**Features**

- Now 64 bit for faster computing, better graphics and larger files.
- Build geological datasets.
- Produce high-quality scaled geological maps, with titleblocks, map grids, legends, structural symbols, etc.
- Compile drillhole data and create cross-sections, plans and logs.
- Create, filter, contour, profile, manipulate, color and analyse gridded surfaces.
- Analyse and visualise geochemical data.
- Rectify unprojected raster images.
- Create graphs with maintained spatial links for interactive analysis.
- Enhance your GIS productivity via an extensive range of data, object, table and map windows utilities.
- Connect to other geological systems, databases and file formats.
- Control the MapInfo Professional workspace with a real-time, enhanced layer control.
- Optionally display your GIS data in 3D (Discover 3D).
- Integrate with a field GIS (Discover Mobile).

Additions include major enhancements in our massive grid technology, a new drillhole cross-section generation tool and easy section regeneration, automatic batch printing from a map series, as well as numerous other improvements.

Visit www.rockware.com for a complete list of new features.
Built on top of the functionality and power of the award-winning Datamine Discover MapInfo bundle, Discover 3D turns the 2D environment into a full 3D GIS System. Accurately visualize and analyze all of your datasets in the Discover 3D environment. Then interpret, digitize and model them to examine and test trends, potential extensions, offsets and targets.

**Download a trial version at www.rockware.com**

*$Call for pricing*

### Features

- Now 64 bit for faster computing, better graphics and larger files.
- Fully integrated with Encom Discover and MapInfo Professional (Requires Encom Discover and MapInfo).
- Real-time 3D navigation via the mouse or SpaceNavigator™.
- Fly-through movie creation and playback.
- Extensive industry format support, allowing the visualization and manipulation of data such as gridded surfaces, vector objects, voxel models and raster images.
- Visualize and analyze drillhole projects in 3D in detail, including color and thickness modulation display controls, 2D section boundary display, live downhole data interrogation, etc.
- Dynamic drillhole planning and targeting.
- Extensive powerful modelling and gridding capabilities.

### These modeling and gridding capabilities include:

- Extrusion of simple objects to create fault planes, stratigraphic boundaries, etc.
- Digitize interpretations directly in 3D, including snapping precisely to drillhole intervals.
- Wireframing between objects (including tieline support) to build triangulated surfaces and solids.
- Interpolation between 3D objects to create smooth gridded surfaces.
- 3D block modelling (3D gridding) to create and manipulate voxel models.
- Model refinement and experimentation with Discover 3D’s advanced editing functionality, e.g. cutting or intersecting one model with another, elastically reshaping regions within a solid, combining multiple models, etc.
ArcGIS® is desktop GIS mapping software that provides geographic data visualization, mapping, management, and analysis capabilities along with the ability to create and edit data.

Download a trial version at www.rockware.com

$ Call for pricing

Benefits and New Features in ArcGIS

Enhanced Quality and Performance

- Expanded parallel processing
- Many software quality improvements
- Optimized file handling
- Includes 32 bit and 64 bit version (ArcGIS Pro) for full compatibility with old and new extensions

Improved Security

- Public Key Infrastructure (PKI) support
- Single sign-on authentication
- Standardized SQL parser

Geodata

- Support for new workspaces (Teradata, SQLite, PostgreSQL 9.2)
- Modify field properties on supported DBMSs
- New archiving tool set

Improved Mapping and Reporting

- Improved PDF export
- Improved generalization
- Mailing label generation

Cloud GIS

- Includes ArcGIS Online—Use online maps and tools that are a built-in part of ArcGIS, whether you’re using ArcGIS Desktop, a mobile device, a browser, or if you’re developing applications using the ArcGIS Web Mapping APIs.
- Find, share, organize, and use maps, apps, and other resources via ArcGIS.com.
- Discover, share, and present geographic information using ArcGIS Explorer Online.

Expanded GIS in the Field

- Leverage ArcGIS Mobile with ArcGIS Desktop and access geoprocessing tools to create, edit, and sync mobile caches to your device.
- Use streaming GPS, photo attachments, and location tracking.
- Access a new iPhone mapping application directly from the Apple iTunes App Store.
### ArcGIS Desktop Basic (ArcView)

ArcGIS Desktop Basic is the industry standard for GIS visualization. With free basemaps and the ability to add your own data, Basic is the perfect solution for the everyday GIS analyst.

With ArcGIS Desktop Basic, you can:
- Visually model and spatially analyze a process or workflow.
- Create interactive maps from file, database, and online sources.
- Create street-level maps and incorporate GPS locations.
- View CAD data or satellite images.
- Generate reports and charts.

### ArcGIS Desktop Standard (ArcEditor)

ArcGIS Desktop Standard is meant for the GIS user that regularly makes edits to databases and geodatabases. With this level, the user can check the precision of the database and make changes where necessary.

With ArcGIS Desktop Standard, you can:
- Use complete GIS data editing capabilities.
- Have the ability to edit a multiuser enterprise geodatabase.
- Use disconnected editing in the field.
- Store historical snapshots of your data.
- Automate quality control.
- Create spatial data from scanned maps.
- Use raster-to-vector conversion.

### ArcGIS Desktop Advanced (ArcInfo)

ArcGIS Desktop Advanced is the highest level of ArcGIS. This level opens up the advanced geocoding and cartography tools to allow the GIS user the most complete and thorough database processing and analysis available.

With ArcGIS Desktop Advanced, you can:
- Complete advanced GIS data analysis and modeling.
- Create atlas-like, publication-quality maps.
- Use advanced data translation and creation tools.
- Complete advanced feature manipulation and processing.
- Work with data conversions for CAD, raster, dBASE, and coverage formats.

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<td>✗</td>
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<td>Create interactive maps from file, database, and online sources</td>
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<td>✗</td>
<td>✗</td>
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<tr>
<td>Create street-level maps that incorporate GPS locations</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>View CAD data or satellite images</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
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<tr>
<td>Generate reports and charts</td>
<td>✗</td>
<td>✗</td>
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<tr>
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<td>Complete GIS data editing capabilities</td>
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<td>Edit a multiuser enterprise geodatabase</td>
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<td>✗</td>
<td>✗</td>
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<td>-</td>
<td>✗</td>
<td>✗</td>
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<td>✗</td>
<td>✗</td>
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<td>✗</td>
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<tr>
<th>Advanced Analysis, High-end Cartography, and Extensive Database Management</th>
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<td>Advanced GIS data analysis and modeling</td>
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<tr>
<td>Atlas-like, publication-quality maps</td>
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<td>-</td>
<td>✗</td>
</tr>
<tr>
<td>Advanced data translation and creation</td>
<td>-</td>
<td>-</td>
<td>✗</td>
</tr>
<tr>
<td>Advanced feature manipulation and processing</td>
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<td>-</td>
<td>✗</td>
</tr>
<tr>
<td>Data conversion for CAD, raster, dBASE, and coverage formats</td>
<td>-</td>
<td>-</td>
<td>✗</td>
</tr>
</tbody>
</table>
Add more functionality to ArcGIS Desktop with the Extensions. These specialized tools allow you to perform more sophisticated tasks such as raster geoprocessing and 3D analysis.

Visit www.rockware.com

$ Call for pricing

ArcGIS Family
- ArcGIS Desktop
- ArcGIS Pro
- ArcPad
- All ArcGIS Extensions
- ArcGIS Desktop Gallery

System Requirements
Must have an existing or new ArcGIS Desktop or ArcGIS Pro, Basic, Standard, or Advanced (ArcView, ArcEditor, or ArcInfo) license to run the Extensions.

ArcGIS 3D Analyst
Analyze your data in a realistic perspective.

ArcGIS Data Interoperability
Eliminate barriers to data use and distribution.

ArcGIS Data Reviewer
Automate, simplify, and improve data quality control management.

ArcGIS Geostatistical Analyst
Use advanced statistical tools to investigate your data.

ArcGIS Network Analyst
Perform sophisticated routing, closest facility, and service area analysis.

ArcGIS Publisher
Freely share your maps and data with a wide range of users.

ArcGIS Schematics
Represent and understand your networks to shorten decision cycles.

ArcGIS Spatial Analyst
Derive answers from your data using advanced spatial analysis.

ArcGIS Tracking Analyst
Reveal and analyze time-based patterns and trends in your data.

ArcGIS Workflow Manager
Better manage GIS tasks and resources. *Requires ArcGIS Desktop Standard or Advanced
Too busy to teach yourself?
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- RockWare trainers are both software and industry experts.
- Courses cater to all levels and backgrounds.

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