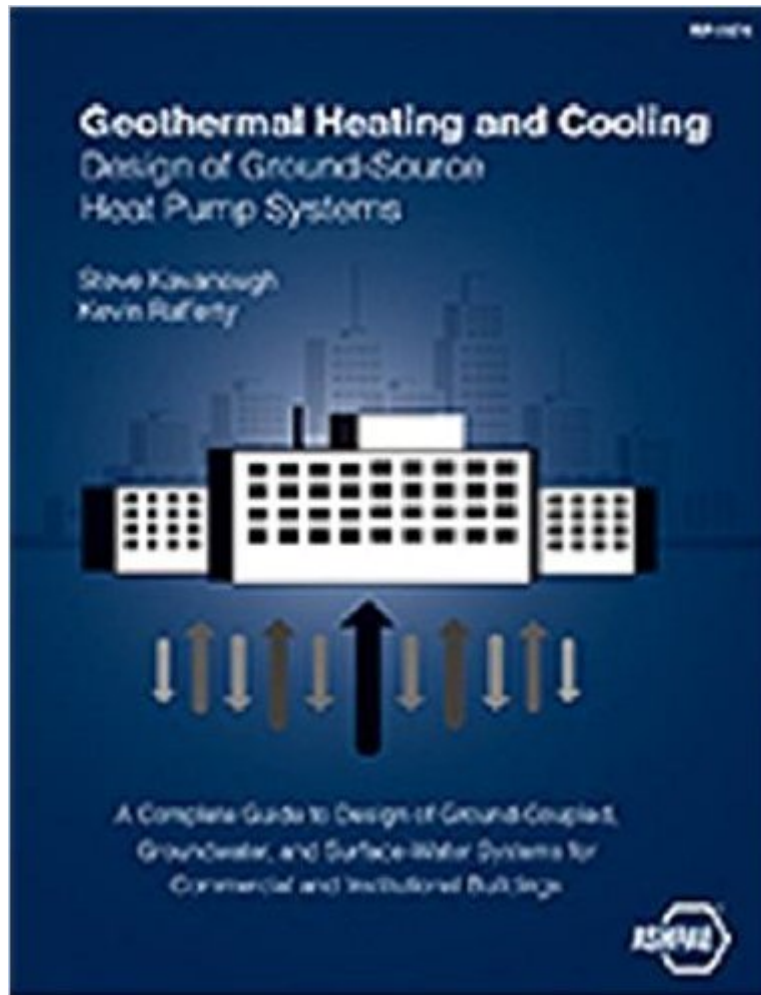


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# Geothermal Heating And Cooling: Design Of Ground-Source Heat Pump Systems



## Synopsis

Geothermal Heating and Cooling is a complete revision of *Ground-Source Heat Pumps: Design of Geothermal Systems for Commercial and Institutional Buildings*, which is recognized as the primary reference for nonresidential ground-source heat pump (GSHP) installations. Many improvements have evolved, and performance data, both positive and negative, is now available to guide the development of best practices. This essential guide for HVAC design engineers, design-build contractors, GSHP subcontractors, and energy/construction managers also provides building owners and architects with insights into characteristics of quality engineering firms and the information that should be provided by design firms competing for GSHP projects. This revision draws on new ASHRAE and industry research in critical areas, as well as measured data from long-term installations and optimized installation practices used by high-production GSHP contractors. Nearly all chapters and appendices were completely rewritten, and they include coverage of closed-loop ground (ground-coupled), groundwater, and surface-water systems, plus GSHP equipment and piping. Additional information on site characterization has been added, including a new hydrogeological chapter. Another new chapter contains results of recent field studies, energy and demand characteristics, and updated information to optimize GSHP system cost. Tables, graphs, and equations are provided in both Inch-Pound (I-P) and International System (SI) units. As a bonus, supplemental Microsoft® Excel® macro-enabled spreadsheets for a variety of GSHP calculations accompany the text.

## Book Information

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## Customer Reviews

Very technical as it should be. A complete coverage of geothermal systems. Liked "Ground Source Heat Pump Residential and Light Commercial Design & Installation Guide" better, but I'm not interested in commercial projects.

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