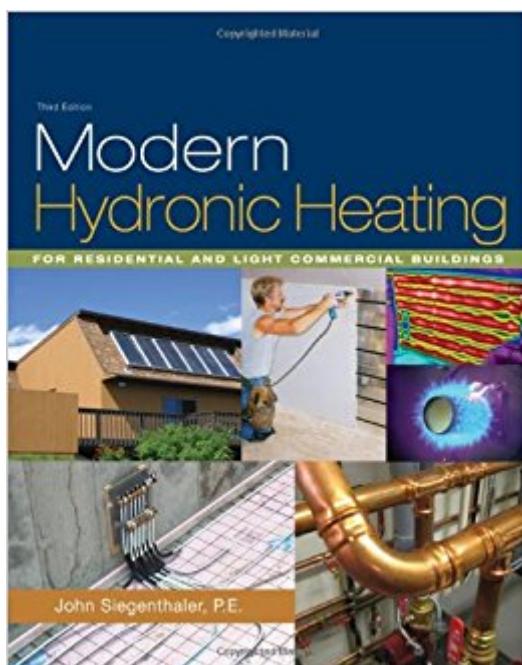


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# Modern Hydronic Heating: For Residential And Light Commercial Buildings (Go Green With Renewable Energy Resources)



## **Synopsis**

From simple applications to multi-load / multi-temperature systems, learn how to use the newest and most appropriate hydronic heating methods and hardware to create system the deliver the ultimate in heating comfort, reliability, and energy efficiency. Heavily illustrated with product and installation photos, and hundreds of detailed full-color schematics, MODERN HYDRONIC HEATING, 3rd EDITION is a one-of-a-kind comprehensive reference on hydronic heating for the present and future. It transforms engineering-level design information into practical tools that can be used by technical students and heating professional alike. This revised edition features the latest design and installation techniques for residential and light commercial hydronic systems including use of renewable energy heat sources, hydraulic separation, smart circulators, distribution efficiency, thermal accumulators, mixing methods, heat metering, and web-enabled control methods. Everyone involved in the heating trade will benefit from this preeminent resource of the North American heating industry. It is well-suited for use in a formal education course, self-study, or as an on the job reference.

## **Book Information**

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## **Customer Reviews**

John Siegenthaler, P.E., is a mechanical engineering graduate of Rensselaer Polytechnic Institute, a licensed professional engineer, and Professor Emeritus of Engineering Technology at Mohawk Valley Community College. "Siggy", as he is known in the industry, has over 32 of experience in

designing modern hydronic heating systems, including those using renewable energy subsystems. He is a hall-of-fame member of the Radiant Panel Association, and a presenter at national and international conferences on heating and building technology. John is principal of Appropriate Designs, a consulting engineering firm in Holland Patent, NY.

I had wanted to purchase this book for quite a while, but the price kept me from buying it at first. Well, several new projects came across my desk, and I purchased it to design and bid the work. This book is well written and illustrated. I was not only impressed with the author's knowledge of the topic, but how the information was presented and explained. You could save a small fortune by reading this book before you design or install a hydronic heating system. I have used other resources for reference, but I have never seen all the information you would ever need, in one resource. This author put a lot of time into this book.

This is a technical text book for folks who design and install Hydronic heating systems, I am not a heating contractor or specialist - I am a home owner that designed and installed my own unique system and used this book as my bible. Most of the info that I needed was included in this book. However since I had some unique situations, I did not find everything I needed in this book, but make all safety decisions and my assumptions based on the theory that was outlined. Most of the other publications written by non-professionals did not have the theory behind hydronic systems, but this book did. I did find some other practical sources of information that also helped. I highly recommend this book for hydronic heating professionals (5 stars)

Took a boiler maintenance class, again... and instructor mentioned this book , it's loaded with information on boilers and hydronics.I would definitely recommend this book for students as well as homeowners.

I am a contractor that has been looking for a greener approach of building. I had a friend that was interested in putting Hydronic floor heat in his shop floor, and I decided to invest the money and learn the ins and outs of the systems besides the basics you can find for free online. If you hire contractors, plumbers, or HVAC professionals to install hydronic heat be sure you ask to see previous work, or at least follow up with references. ALWAYS get a signed contract. This subject is very much an exact science to get the efficiency, and longevity you desire your system to have to begin with. I have seen several poorly designed systems that cost more money to operate, didn't

work well enough, or even worse, didn't work at all. People think it is only a matter of running pex piping under concrete and plumbing it into a boiler - they could not be more incorrect. Personally I have several contacts of mine that have hired professionals to install under floor heating systems - and failed to do it correctly. The home owner is left with a negative opinion of hydro heating because they trust that the installer did the job correctly, but the heating system is just not what they expected it to be. Truth be told if the contractor had read this book it would work correctly. This book is a text book - full of information and proof of engineering. It is well worth the \$170 paid for it. It is chocked with 700+ pages of information that even the season veteran plumbers will look to draw information on for the rest of their careers. If you are thinking about building and installing a Hydronic heating system , I highly encourage you to purchasing the first (nd most important) tool of that installation right here.

After natural gas became available in our neighborhood I used this book to design a replacement for the 40 year oil oil-fired system we had. I found the book invaluable for this purpose and it didn't matter that it isn't the latest edition. The new edition covers topics that weren't relevant to my project anyway.

I used this book to install my radiant heat system. I have a working knowledge of heating systems and their application and was hoping this book would help me avoid some of the problems which can bite you in a radiant floor heating system. I found the book well organized, up to date and concise. I am a licensed engineer and licensed mechanical contractor but needed this book to make me feel comfortable with my plans. If you want to learn about all types of hydronic heating systems or , as I did, need to learn about one ,this is a great source of information.

Good information on hydronic heating systems (boiler heat).

Like most of the people who need a book like this, I work in the industry. In my case I design and specify the systems but have almost no prior background in heating systems. I've seen many of them in the field being put together and know most of the principles behind how they work. This book takes you all the way through from beginning to end and explains what every component does and what the reasoning is behind them. Having it on my desk has made my job immensely easier.

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