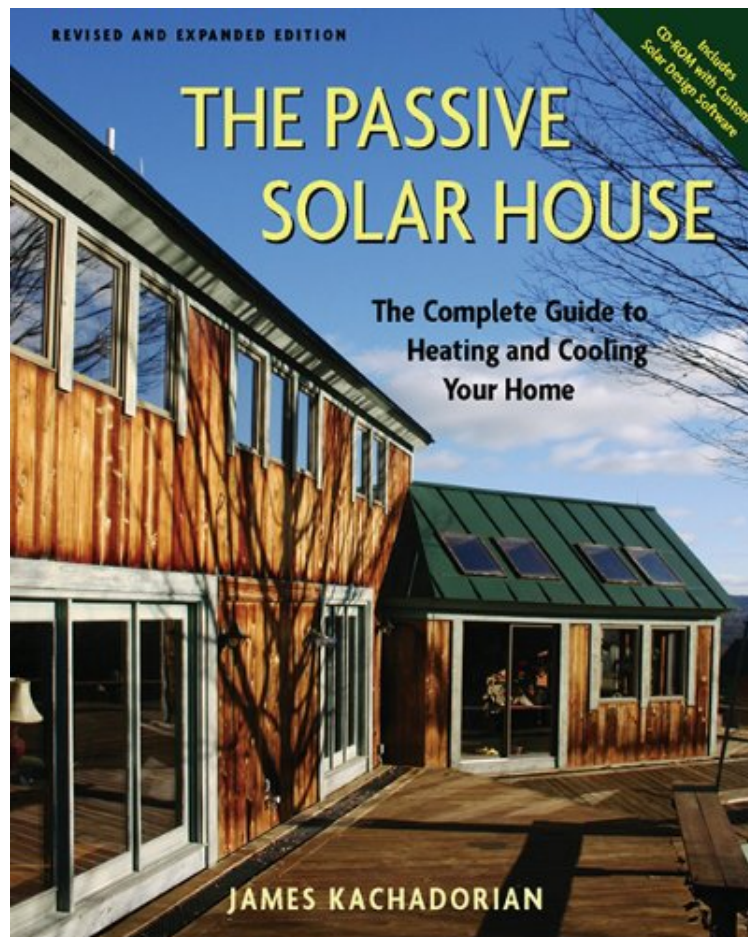


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The Passive Solar House: Using Solar Design to Cool and Heat Your Home, 2nd Edition

James Kachadorian

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James Kachadorian : The Passive Solar House: Using Solar Design to Cool and Heat Your Home, 2nd Edition before purchasing it in order to gauge whether or not it would be worth my time, and all praised The Passive Solar House: Using Solar Design to Cool and Heat Your Home, 2nd Edition:

4 of 4 people found the following review helpful. Very good book on how to build a low cost to heat house! By GoldenHVAC I am so looking forward to designing a house using the patented (expired) floor layout to both heat and cool my soon to be built home. I am also planning on installing active heat with evacuated tube solar panels, in the floor heating, and dual setpoint thermostats. If the tank temperature is over 165F, then it will warm the rooms to the warmer set point, otherwise to the energy saving setpoint. It is a very well written book, describes the floor system very well, offers calculations on how much heat can be stored in the floor system. It should be able to store enough heat to prevent the heater from coming on from noon until midnight, and if we are sleeping with a set back to about 60, the heater should only come on early in the morning for a hour or so on coldest days. In the summer, the floor can store 5

tons of cooling capacity for use during the day, I would only need to run low fan speed to pull cool air out of the floor, and bring in the warmer house air to re-cool it. It will provide a total of 350,000 Btu's of cooling before I would reach 75F inside, if I can cool the floor with 65F nighttime air. Easy enough in my location. I will have three stage thermostat, that first starts the fan only, then stage 1 heat or cooling, at 2 more degrees away from set point, then it will start the second stage cooling, to actively cool the house, or heat it in the winter time. I install air conditioners and can tell that this author really knows what they are talking about!

Fred 2 of 2 people found the following review helpful.
Good book. Detailed calculations are helpful
By Cardinalis
Good book. Detailed calculations are helpful. Drawings are helpful, but in the Kindle version is difficult to read. Best to buy the hardcopy, as there appears to be no way to get the software on the CD via download. It's worth the \$1.25 difference in price.

3 of 3 people found the following review helpful.
The Passive Solar House
By JJ Diamond
In these tumultuous times of higher oil and gas prices it is good to know there is an alternative way of heating a home. The Passive Solar House takes the reader through some basic principles of heating using the sun and how to construct a home that takes advantage of these ideas. If you are a seasoned handyman looking to build your own home or someone who is wanting to design a home to reduce their carbon footprint - you will buy this book. The patented Solar Slab design is what makes this house work. With the same materials used in a "normal" house, reallocating these materials improves the ability of the sun to warm the house in cold, sunny weather and to keep the house cooler in the summer months. Just enough windows, a large thermal mass in the first floor and some innovative window coverings all work together to reduce the need for additional heating and cooling. Backup measures are installed for when the need arises but the use of a furnace or wood stove is significantly reduced because of the solar design. Read this book if you want the details - you will be impressed.

Revised and Expanded Edition - Includes CD-ROM with Custom Design Software
For the past ten years The Passive Solar House has offered proven techniques for building homes that heat and cool themselves, using readily available materials and methods familiar to all building contractors and many do-it-yourself homeowners. True to this innovative, straightforward approach, the new edition of this best-selling guide includes CSOL passive solar design software, making it easier than ever to heat your home with the power of the sun. Since The Passive Solar House was first published, passive solar construction expert James Kachadorian has perfected user-friendly, Windows-compatible software to supplement the design process explained in the book by allowing homeowners/designers to enter the specifications of their design and see how changing a variable will affect its energy efficiency. This is the building book for a world of climbing energy costs. Applicable to diverse regions, climates, budgets, and styles of architecture, Kachadorian's techniques translate the essentials of timeless solar design into practical wisdom for today's solar builders. Profiles of successful passive solar design, construction, and retrofit projects from readers of the first edition provide inspiration to first-time homebuilders and renovators alike.