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utilizable than the gains from appliances simulations or specialized passive solar energy calculation methods have previously been required to account for this effect this paper presents curves of the fraction of the absorbed solar energy utilized for displacement of space heat developed by comparing heating loads calculated using a variable base degree day method ignoring solar gains to heating loads from a large number of detailed doe 2 simulations the difference in the loads predicted by the two methods can be interpreted as the utilized solar gains the solar utilization decreases as the thermal integrity increases as expected and the solar utilizations are similar across climates they can be used to estimate the utilized fraction of the absorbed solar energy and with the load predicted by the variable base degree day calculation form a modified degree day method that closely reproduces the loads predicted by the doe 2 simulation model and is simple enough for hand calculations

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practical real world advice on how to apply the code and in a loose leaf format it is easy to customize your experience with the code by adding job and situation specific materials new to the 2011 edition are articles including first time article 399 on overhead conductors with over 600 volts first time article 694 on small wind electric systems first time article 840 on premises powered broadband communications systems and more this winning combination has created a valuable reference for those in or entering careers in electrical design installation inspection and safety residential building codes and voluntary labeling programs are continually increasing the energy efficiency requirements of residential buildings improving a building's thermal enclosure and installing energy efficient appliances and lighting can result in significant reductions in sensible cooling loads leading to smaller air conditioners and shorter cooling seasons however due to fresh air ventilation requirements and internal gains latent cooling loads are not reduced by the same proportion thus it is becoming more challenging for conventional cooling equipment to control indoor humidity at part load cooling conditions and using conventional cooling equipment in a non conventional building poses the potential risk of high indoor humidity the objective of this project was to investigate the impact the chosen design condition has on the calculated part load cooling moisture load and compare calculated moisture loads and the required dehumidification capacity to whole building simulations procedures for sizing whole house supplemental dehumidification equipment have yet to be formalized however minor modifications to current air conditioner contractors of america acca manual j load calculation procedures are appropriate for calculating residential part load cooling moisture loads though ashrae 1 dp design conditions are commonly used to determine the dehumidification requirements for commercial buildings an appropriate dp design condition for residential buildings has not been investigated two methods for sizing supplemental dehumidification equipment were developed and tested the first method closely followed manual j cooling load calculations whereas the second method made more conservative assumptions impacting both sensible and latent loads ansi acca 2 manual j8ae 2016 residential load calculation 8th edition ae manual j 8th edition is the national ansi recognized standard for producing hvac equipment sizing loads for single family detached homes small multi unit structures condominiums town houses and manufactured homes this new version incorporates the complete abridged edition of manual j the manual provides quick supplemental details as well as supporting reference tables and appendices a proper load calculation performed in accordance with the manual j 8th edition procedure is required by national building codes and most state and local jurisdictions

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