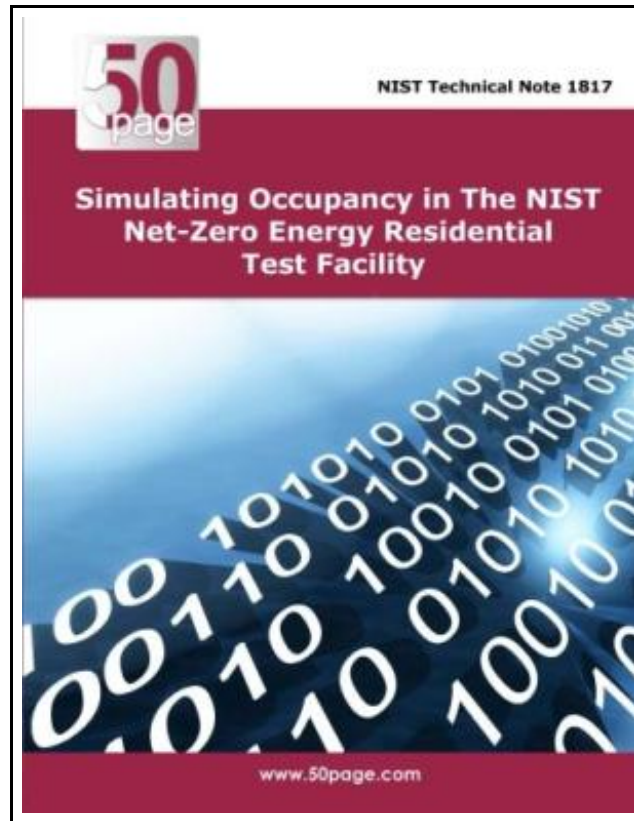# Simulating Occupancy in The NIST Net-Zero Energy Residential Test Facility

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Reviews

Basically no words to clarify. Of course, it is perform, still an amazing and interesting literature. Its been printed in an exceptionally basic way which is only soon after i finished reading through this ebook where actually altered me, change the way i really believe.
(Newton Runolfsson)

SIMULATING OCCUPANCY IN THE NIST NET-ZERO ENERGY RESIDENTIAL TEST FACILITY

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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 70 pages. Dimensions: 11.0in. x 8.5in. x 0.2in.The Net-Zero Energy Residential Test Facility (NZERTF), at the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland, is a research house that is comparable in size and aesthetic to the houses in the greater Washington DC metro area. The purpose of the NZERTF is to demonstrate the feasibility of achieving net zero energy over the course a year (i. e. , energy generated using photovoltaic modules and solar hot water equals energy consumed). The lifestyle choices of the occupants can have a substantial effect on the overall energy consumption of the house. As a laboratory facility, a methodology was needed to simulate this occupants behavior. The occupancy in the NZERTF is emulated by a virtual family of four whose behavior and activities are based recommendations published by the U. S. Department of Energy. In order to attempt to realistically emulate the daily activities of the virtual family it is necessary to replicate their occupancy profiles, water usage, lighting usage, miscellaneous electric plug loads, cooking loads, appliances loads, and sensible and latent loads. This paper discusses the methodology, strategy, and hardware behind emulating the occupancy in the NZERTF. This item ships from La Vergne,TN. Paperback.

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