

1. Record Nr.	UNINA9910798618703321
Titolo	Konstantin Eduardovich Tsiolkovsky : the pioneering rocket scientist and his cosmic philosophy philosophy / / Daniel H. Shubin, editor and translator
Pubbl/distr/stampa	New York : , : Algora Publishing, , 2016 ©2016
ISBN	1-62894-239-8
Descrizione fisica	1 online resource (250 pages) : illustrations
Disciplina	629.4092
Soggetti	Aerospace engineers - Soviet Union Astronautics - Russia - History
Lingua di pubblicazione	Inglese
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Titolo	Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning : Volume 2: HVAC&R Component and Energy System // edited by Angui Li, Yingxin Zhu, Yuguo Li
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
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Edizione	[1st ed. 2014.]
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Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 262
Disciplina	658.25 697/.00151
Soggetti	Energy policy Energy and state Buildings - Environmental engineering Sustainability Civil engineering Mechanical engineering Energy Policy, Economics and Management Building Physics, HVAC Civil Engineering Mechanical Engineering
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Nota di contenuto	""Preface""; ""International Scientific Committee""; ""Organizing Committee""; ""Contents""; ""Part I Energy System""; ""1 Net-Zero Energy Technical Shelter""; ""Abstract""; ""1.1a€?Introduction""; ""1.2a€?Performance Investigation by Full-Scale Experiment""; ""1.2.1 Experimental Method""; ""1.2.2 Experimental Results""; ""1.2.2.1 Performance of Ventilative Cooling System""; ""1.2.2.2 Temperature Gradient""; ""1.2.2.3 Energy Balance of the Technical Shelter""; ""1.3a€?Performance Optimization by Numerical Simulation""; ""1.3.1 Simulation Method""; ""1.3.2 Simulation Results""

""1.3.2.1 Impact of Envelope Insulation"""; ""1.3.2.2 Cooling Strategies"";
""1.4a€?Alternative Power Solutions for a Technical Shelter""; ""1.5a€?Conclusion"";
""References""; ""2 The Study on Paraffin-Water Emulsion PCM with Low Supercooling Degree"";
""Abstract""; ""2.1a€?Introduction""; ""2.2a€?Experiment""; ""2.2.1 Materials"";
""2.2.2 Modification of MWCNT Particles""; ""2.2.3 Preparation of PCM Slurry and PCM-Water Emulsion"";
""2.2.4 Characterization and Analysis of Emulsion Droplets and the Nanoparticles"";
""2.2.5 Thermal Analysis""; ""2.3a€?Results and Discussion""
""2.3.1 The Particle Size Distribution of Modified MWCNT Particles""";
2.3.2 The Droplet Size Distribution of the PCM-Water Emulsion"";
""2.3.3 The Morphology of PCM-Water Emulsion Droplets""; ""2.3.4 The Supercooling in PCM-Water Emulsion"";
""2.4a€?Conclusion""; ""Acknowledgments""; ""References""; ""3 Analysis of Energy Utilization on Digestion Biogas Tri-Generation in Sewage Treatment Works"";
""Abstract""; ""3.1a€?Introduction""; ""3.2a€?Present Situation of the STW"";
""3.2.1 Heating Load of Digester""; ""3.2.2 Disadvantages of the Present Biogas Utilization Scheme""
""3.3a€?Proposed Digestion Biogas Combined Cooling, Heating, and Power System""";
""3.3.1 Biogas Generator""; ""3.3.2 Lithium Bromide Absorption Chiller""; ""3.4a€?Operation of the Tri-Generation System"";
""3.5a€?Cost-Benefit Analysis""; ""3.6a€?Conclusions""; ""References"";
""4 Approach and Practice of District Energy Planning Under Low-Carbon Emission Background""; ""Abstract""; ""4.1a€?Introduction"";
""4.2a€?General Methodology""; ""4.2.1 Low-Carbon Strategies"";
""4.2.2 Integrated Framework""; ""4.3a€?Discussion of Key Points"";
""4.3.1 Assessment of Low-Carbon""
""4.3.2 Integrated Planning of Infrastructure""";
""4.3.3 Planning Interaction""; ""4.3.4 Investment and Operation Mode""; ""4.3.5 Planning Management Mechanism""; ""4.3.6 Combination with the Progress of Construction"";
""4.4a€?Conclusions""; ""References""; ""5 Study on the Heat Insulation Performance of EMU Structure""; ""Abstract""; ""5.1a€?Introduction"";
""5.2a€?The Simulation Calculation Method""; ""5.3a€?The Heat Transfer Model of EMU Structure and Simulation""; ""5.4a€?By Experimental Verification"";
""5.4.1 Experimental Testing Method"";
""5.4.2 The Experiment Equipment"";
""5.4.2.1 The Experiment Device""

Sommario/riassunto

Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning is based on the 8th International Symposium of the same name (ISHVAC2013), which took place in Xi'an on October 19-21, 2013. The conference series was initiated at Tsinghua University in 1991 and has since become the premier international HVAC conference initiated in China, playing a significant part in the development of HVAC and indoor environmental research and industry around the world. This international conference provided an exclusive opportunity for policy-makers, designers, researchers, engineers and managers to share their experience. Considering the recent attention on building energy consumption and indoor environments, ISHVAC2013 provided a global platform for discussing recent research on and developments in different aspects of HVAC systems and components, with a focus on building energy consumption, energy efficiency and indoor environments. These categories span a broad range of topics, and the proceedings provide readers with a good general overview of recent advances in different aspects of HVAC systems and related research. As such, they offer a unique resource for further research and a valuable source of information for those interested in the subject. The proceedings are intended for researchers, engineers and graduate students in the fields of Heating,

Ventilation and Air Conditioning (HVAC), indoor environments, energy systems, and building information and management. Angui Li works at Xi'an University of Architecture and Technology, Yingxin Zhu works at Tsinghua University and Yuguo Li works at The University of Hong Kong.
