

1. Record Nr.	UNINA9910458223703321
Titolo	Advances in building technology . Volume 1 : proceedings of the International Conference on Advances in Building Technology, 4-6 December, 2002, Hong Kong, China // edited by M. Anson, J. M. Ko, E. S. S. Lam
Pubbl/distr/stampa	Oxford, [England] : , : Elsevier Science Ltd, , 2002 ©2002
ISBN	1-281-05400-3 9786611054007 0-08-052663-2
Descrizione fisica	1 online resource (1844 p.)
Altri autori (Persone)	AnsonM KoJ. M LamE. S. S
Disciplina	624
Soggetti	Civil engineering - Technological innovations Building - Technological innovations Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	e9780080441009v1; Front Cover; ADVANCES IN BUILDING TECHNOLOGY; Copyright Page; Preface; International Advisory Committee; Organizing Committee; Executive Committee; CONTENTS; PART 1: KEYNOTE PAPERS; Chapter 1. Advances in Materials and Mechanics; Chapter 2. Advances in Concrete Technology; Chapter 3. Human Requirements in Future Air-Conditioned Environments; Chapter 4. Creating Competitive Advantage and Profits with Technology in the Construction Sector; Chapter 5. Advances in IT for Building Design Chapter 6. Information Technology Support to Improved Construction Processes: Inter-Disciplinarity in Research and PracticeChapter 7. Recent Topics in Wind Engineering Focusing on Monitoring Techniques; Chapter 8. A Conception of Casualty Control Based Seismic Design for Buildings; Chapter 9. Thermal Radiation Effects and Their Determination in Room Fires; PART 2: TEAM PRESENTATION: Advances

in Panel Systems; Chapter 1. Wood Frame Shear Walls with Metal Plate Connected Framework; Chapter 2. Toward Engineering Design of Gypsum Board Fire Barriers  
Chapter 3. Barrier Materials to Reduce Contaminant Emissions from Structural Insulated Panels  
Chapter 4. Novel Microcellular Plastics for Lightweight and Energy Efficient Building Applications; Chapter 5. Long-Term Creep Response of Borate-Modified Oriented Strandboard; Chapter 6. Mechanical, Physical, and Biological Properties of Borate-Modified Oriented Strandboard; PART 3: TEAM PRESENTATION: Commissioning and Energy Management; Chapter 1. Re-commissioning of an Air Handling Unit; Chapter 2. Automated Commissioning of Air-Handling Units Using Fuzzy Air Temperature Sensors  
Chapter 3. Modeling of Package Air-Conditioning Equipment  
Chapter 4. Automatic Diagnosis and Commissioning of Central Chilling Systems; PART 4: TEAM PRESENTATION: Composite Construction; Chapter 1. Design of Simply-Supported and Continuous Beams in Steel-Concrete Composite Construction; Chapter 2. Innovations in Composite Slabs Incorporating Profiled Steel Sheeting; Chapter 3. Web-Side-Plate Framing Connections in Both Steel and Composite Construction; Chapter 4. Novel New Reinforcing Components for Composite Beams  
Chapter 5. The Influence of Material Properties on the Local Buckling of Concrete Filled Steel Tubes  
PART 5: TEAM PRESENTATION: Composites for Housing; Chapter 1. Low-Cost, Bio-Based Composite Materials for Housing Applications; Chapter 2. Durability of Pulp Fiber-Cement Composites to Wet/Dry Cycling; Chapter 3. Extruded Fiber-Reinforced Composite; Chapter 4. Reversed In-Plane Cyclic Behavior of Post-Tensioned Clay Brick Masonry Walls for High Performance Modular Housing; Chapter 5. An All-Natural Composite Material Roof System for Residential Construction  
Chapter 6. Comparison of Optimal Designs for Stick-Frame Wall Assemblies of Different Bay Sizes

---

### Sommario/riassunto

This set of proceedings is based on the International Conference on Advances in Building Technology in Hong Kong on 4-6 December 2002. The two volumes of proceedings contain 9 invited keynote papers, 72 papers delivered by 11 teams, and 133 contributed papers from over 20 countries around the world. The papers cover a wide spectrum of topics across the three technology sub-themes of structures and construction, environment, and information technology. The variety within these categories spans a width of topics, and these proceedings provide readers with a good general overview of recent a

---