

2009台达杯国际太阳能建筑设计竞赛获奖作品集

Awarded Works from International Solar Building Design Competition 2009

# 阳光与希望

## Sunshine and Hope

中国可再生能源学会太阳能建筑专业委员会 编

Edited by Special Committee of Solar Building, CRES

执行主编 仲继寿 张磊

Chief Editor : Zhong Jishou, Zhang Lei



中国建筑工业出版社  
CHINA ARCHITECTURE & BUILDING PRESS



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谨将本书献给5·12中国汶川大地震灾区的孩子们和建设者

感谢台达环境与教育基金会资助举办2009国际太阳能建筑设计竞赛

感谢台达电子集团资助阳光小学建设，暨重建中国四川省绵阳市涪城区杨集镇小学

感谢所有关心阳光小学建设事业的人们——

This book is dedicated to the children and builders of 5·12 Earthquake Area in Wenchuan, China.

Thanks to Delta Environmental & Educational Foundation that aids financially International Solar Building Design Competition 2009.

Thanks to Delta Electronics, Inc. that aids financially the construction of sunshine primary school and reconstruction of Yang Jia Zhen School, Fucheng District, Mianyang, Sichuan Province, China.

Thanks to all the people concerned about the construction of sunshine primary school.



# 阳光与希望

## Sunshine and Hope

太阳高高挂，  
孩子快快长。  
太阳带来温暖，  
孩子带来快乐。  
太阳照遍世界，  
孩子走遍未来。  
没有太阳和孩子就没有世界，  
没有太阳和孩子就没有未来。  
我们就是太阳和小孩！

这是一个四年级的小学生创作的诗歌，也诠释了2009台达杯国际太阳能建筑设计竞赛的主题——阳光与希望。

本次竞赛将目光投向5·12汶川地震灾区，面向全球征集农村“阳光小学”设计方案。“阳光小学”不仅强调绿色与环保理念，而且注重建筑技术与太阳能利用技术的融合。竞赛活动试图通过以太阳能被动利用为主、主动利用为辅的建筑设计，为农村地区的孩子们营造安全健康、可持续运营的校园。

考虑到地震给灾区学校造成的巨大损失，竞赛组委会决定按照灾区典型气候特征（中国四川马尔康地区和绵阳地区）制定设计条件，吸引全球更多的设计团队参与竞赛活动，用才智打造“阳光小学”，用行动传播太阳能建筑理念，将温暖洒向灾区孩子的心灵。

本次竞赛吸引了来自四大洲33个国家和地区的共1024个团队注册，征集有效作品194份。评审专家们对获奖作品给予了充分的肯定，认为作品普遍强调了建筑技术与太阳能技术的有机结合，在经济可行、技术可靠的前提下，具有一定的超前性。

国际太阳能建筑设计竞赛活动已经被国际太阳能学会批准成为两年一届的常规赛事，并配合世界太阳能大会定期举行。展望2011，我们会一如既往地努力搭建好竞赛舞台，让更多优秀的设计师对太阳能等可再生能源和建筑的结合进行更深入的尝试和探索，让更多优秀的作品通过大家的努力落地开花，让未来的建筑拥有更广阔的遐想空间。

感谢2009台达杯国际太阳能建筑设计竞赛活动的参与者，感谢所有关心与支持太阳能建筑发展的人们。

科技引领时代，创意点亮未来。让我们一同传递爱心与责任，播种梦想与希望。

Sun is hanging in the sky,  
Children are growing fast.  
Sun brings warmth,  
Children bring happiness.  
Sun lightens the whole world,  
Children go to the future.  
World disappears without sun and children,  
Future disappears without sun and children.  
Hi! We are the sun and children!

This is a poetry by a four grade pupil, which also explains the theme of the International Solar Building Design Competition 2009 – Sunshine and Hope.

In this Competition we put our sight to the disaster area of 5·12 Earthquake happened in Wenchuan and collect design schemes of rural “Sunshine Primary School” world widely. For the “Sunshine Primary School”, not only the idea of green and environmental protection is emphasized but also more attention is paid to good combination of building technology and solar application technology. The competition tries to build a safe, healthy and sustainable operating school for the children in rural area by means of building design with passive solar application mainly and active as auxiliary.

Considering the huge loss of the schools by the earthquake, the Organizing Committee decided to make design conditions according to the typical climate character of the disaster area (Ma Er Kang area and Mianyang area of Sichuan province) and attracted more design teams of the world to attend competition activity which may create a “Sunshine Primary School” by their intelligence, diffuse the idea of solar buildings by their action and besprinkle the warmth to the heart of the children.

In this competition, 1024 teams and groups from 33 countries and areas in the world are attracted to take registration and 194 effective works are collected. The jury members have given full affirmation to awarded works and deemed that the works emphasize organic combination of building technology and solar technology and they have certain advancing if operable in economy and liable in technology.

The activity of the international solar building design competition has been approved by International Solar Energy Society as a conventional match of two-year-session, which will be taken place regularly coordinated with Solar World Congress. In prospect of 2011, we will do our best to build a better match stage as in the past giving opportunity to more outstanding designers to make deeper trying and exploration on the combination of renewable energies with buildings. It is expected that more excellent works will achieve in implementation and architecture and have more spaces of fancy in future.

Thanks to all participants of the International Solar Building Design Competition 2009 and all the people concerned about and supporting the development of solar buildings.

The science and technology lead the age and the originality lightens the future. Let's transfer our love and responsibly and seed the dream and hope.

## 过程回顾

### General Background



学校重建场地 (The site for reconstruction of the School)

本次竞赛由国际太阳能学会和中国可再生能源学会联合主办；国家住宅与居住环境工程技术研究中心、中国可再生能源学会太阳能建筑专业委员会承办；台达环境与教育基金会独家冠名。在各单位通力协作下，竞赛组委会于2008年1月成立，并组织了竞赛启动、媒体宣传、校园巡讲、建校选址、作品注册与提交、作品初评与终评、技术交流会等一系列活动。这些活动得到了海内外业界人士的积极响应和参与，参赛作者更是用他们辛勤的劳动将近200件多姿多彩的答卷呈现在我们面前。

#### 一、竞赛筹备

自筹备之初，竞赛组委会就将本届竞赛策划为获奖作品可以实地建设，以此为目标把较易实施的农村学校锁定为竞赛题目，在山东、江西、甘肃等地开展了选址活动。2008年5月12日中国汶川发生震惊世界的大地震，灾区孩子们的教学环境引起各界的普遍关注。竞赛组委会决定结合灾后重建工作，为那里的孩子们建造一所太阳能等清洁能源支持的阳光小学，让他们在安全、舒适、环保、节能的环境下健康成长。

在台达环境与教育基金会、四川省绵阳市台湾事务办公室的大力斡旋下，组委会组织专家到绵阳市进行了实地考察，并最终将杨家镇小学确定为设计竞赛的场地建设条件，编制了竞赛设计任务书。

#### 二、竞赛启动

2008年6月25日，2009台达杯国际太阳能建筑设计竞赛在京启动。本次竞赛结合中国汶川地震的灾后重建工作，以“阳光与希望”为主题，向全球征集农村“阳光

The competition is organized by International Solar Energy Society (ISES) and Chinese Renewable Energy Society (CRES) and operated by China National Engineering Research Center for Human Settlements (CNERCHS) and Special Committee of Solar Buildings, CRES. Delta Environmental and Educational Foundation is the sponsor. With a concerted effort of all sponsors, the Organizing Committee of the competition was established in January, 2008 and had organized a series of activities concerning the competition, such as start-up, media publicity, lecture tour, selection of school site, registration and submission of the works, preliminary evaluation and final evaluation, technological intercourse, etc. All activities gained active response and participation from the professionals at home and abroad. Moreover, through the hard efforts, nearly 200 authors presented their brilliant and colorful examining papers.

#### 1. Preparation

In the beginning, the organizing Committee had set up a target, which was to take awarded works into construction and made sure the project would be a rural school that might be easy to be implemented. And then the activities of site selection were started around some provinces, such as Shandong, Jiangxi, Gansu, etc. On May 12, 2008 a world-shaking earthquake happened in Wenchuan of Sichuan Province while the teaching environment problem for the children in disaster area had arisen serious attention of people. The Organizing Committee decided to build a sunshine school for them combined with the re-construction after the earthquake, which would be supported by clean energies such as solar energy and make the children grow in a safe, comfortable, well-protected and energy-saving environment.

With the great endeavor from Delta Environmental & Educational Foundation and Taiwan Affair Office of Mianyang, Sichuan Province, the organizing committee organized the relevant experts to review the site in Mianyang, and finally Yang





发布会出席嘉宾留影 (VIP photo in the start-up conference)



小学”设计方案，竞赛题目分为马尔康地区农村阳光小学和绵阳地区农村阳光小学两项，参赛人员可任选一项进行设计。赛后，部分获奖方案将在灾区等地付诸建设。

### 三、校园巡讲

2008年9月至12月，竞赛组委会组织进行了为期3个月的“2009台达杯国际太阳能建筑设计竞赛”校园巡讲活动，参加的高校包括重庆大学（共52组参赛队伍）、清华大学（共30组参赛队伍）、天津大学（共10组参赛队伍）、浙江大学（共8组参赛队伍）和华南理工大学（共5组参赛队伍）。巡讲的内容包括太阳能建筑应用现状、发展前景及往届竞赛获奖作品介绍等，均受到了在校师生的热烈欢迎。注册人数在巡讲后均有明显上升。

Jiazhen primary school was chosen to be the construction location.

### 2. Start-up

International Solar Building Design Competition 2009 was started up on June 25, 2008 in Beijing. Combined with the re-construction after the earthquake of Wenchuan in China with a theme of “Sunshine and hope” the design schemes concerning rural “sunshine school” were started to collect design schemes from the whole world. The subjects of the competition were rural “Sunshine primary school” in Ma Er Kang area and Mianyang area, one of which could be chosen for the participants. As the competition finished part of awarded schemes would be taken into construction in disaster area.



重庆大学现场 (2008年10月15日)  
Lecture tour in Chongqing University  
(Oct.15, 2008)



浙江大学现场 (2008年12月11日)  
Lecture tour in Zhejiang University  
(Dec.11, 2008)



清华大学现场 (2008年11月14日)  
Lecture tour in Tsinghua University  
(Nov.14, 2008)



华南理工大学现场 (2008年12月12日)  
Lecture tour in South China  
University of Technology (Dec.12, 2008)



天津大学现场 (2008年11月27日)  
Lecture tour in Tianjin University  
(Nov.27, 2008)

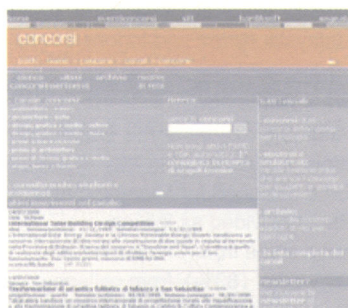
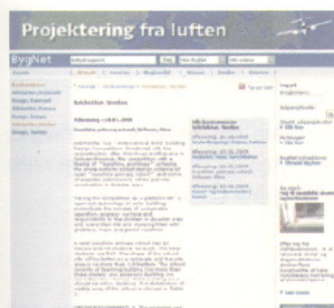


#### 四、媒体宣传

在专业技术巡讲的同时,自2008年6月至2009年1月组委会开展了多渠道的媒体宣传工作,包括:2008年6月正式开通竞赛双语网站实时报告竞赛进展情况并开展太阳能建筑的科普宣传,在www.google.com刊登关键字搜索广告,以便社会大众更快捷地登陆竞赛网站;在中国《建筑学报》,日本《新建筑(Shinkenchiku)》、《A+U》,韩国SPACE magazine,美国《AR》等近10家国内外专业杂志;新华网、雅虎网、ABBS、日本AKICHIATLAS.com、德国Architects24.com、美国ArchNewsNow.com、意大利architecture. It、丹麦bygnet.dk等国内外75家网站;以及《科技日报》、《中国建设报》、《环球时报》等30余家国内的平面媒体,向国际发布了竞赛的组织与宣传情况。

#### 3. Lecture tour in campuses

From September to December, 2008 the Organizing Committee organized an activity of lecture tour concerning the competition in many colleges and universities for three months. The participants were from Chongqing University (52 teams), Tsinghua University (30 teams), Tianjin University (10 teams), Zhejiang University (8 teams) and South China University of Technology (5 teams). The lectures are including existing situation about solar energy application in buildings, the developing prospect and introduction about awarded works of previous competitions. They were warmly welcomed by teachers and students in campuses. After lecture tour the registration numbers of the participants of the competition were increasing evidently.



国外杂志  
Foreign magazines

#### 五、援建协议签署仪式

2008年12月4日,2009台达杯国际太阳能建筑设计竞赛选址进展新闻发布会在北京召开。竞赛组委会在会上宣布,将运用台达电子集团于汶川地震后捐赠的1000万元人民币,援助四川省绵阳市涪城区的杨家镇小学,进行全校异地重建。根据重建计划,杨家镇“阳光小学”施工图,将于2009年5月,由中国建筑设计研究院等建筑设计单位,根据建设要求完善本次竞赛获奖作品而成,并于2009年6月开始付诸施工建设,最终将于2010年春季开学前建成并启用。

#### 4. Media publicity

At the same time with the professional lecture tour, from June, 2008 to January, 2009 the Organizing Committee developed the work of media publicity in multi-channel. In June, 2008 a web site concerning the competition in English and Chinese was set up to put forward the real-time report of competition process and do some propaganda about science popularization. Through web site of Google a search advertisement of key word was published, so that people might visit competition web quickly. Besides, the situation of organization and propaganda of the competition was promulgated to the world via near 10 professional journals as Architecture Journal of China, "Shinkenchiku" of Japan, A+U, SPACE magazine of Korea, AR, etc, 75 web sites as Xinhuanet, Yahoo, ABBS, AKICHIATLAS.com, Architects24.com, ArchNewsNow.com, architecture. It, bygnet.dk and more than 30 domestic print medias as Science and Technology Daily, China Construction News, Globe Times, etc.

#### 5. Ceremony of agreement subscription regarding the aid project

On Dec. 4, 2008 a press conference about the site selection of the school was taken place in Beijing. The Organizing Committee announced that RMB 10 millions contributed after the earthquake by Delta Electronic Group would be used for the

#### 六、竞赛注册情况汇总

本次竞赛的注册时间为2008年6月25日至12月18日,共1024个团队注册,其中:国内(包括港、澳、台地区)866个团队,国际158个团队,涉及的国家 and 地区有:中国、美国、加拿大、墨西哥、厄瓜多尔、阿根廷、意大利、葡萄牙、法国、俄罗斯、德国、英国、瑞典、西班牙、荷兰、丹麦、希腊、乌克兰、捷克、波兰、芬兰、澳大利亚、新西兰、伊朗、印度、日本、巴基斯坦、马来西亚、韩国、印度尼西亚。



## 七、作品提交情况汇总

截止到2009年1月18日,大赛组委会共收到国内外所提交的作品204份,包括有效作品194份,无效作品10份,其中涉及绵阳地区作品108份,马尔康地区作品86份。作品提交情况如下:

中国内地: 168

院校: 139 (83%)

设计院、设计公司及个人: 29 (17%)

港澳台地区: 9

院校: 9 (100%)

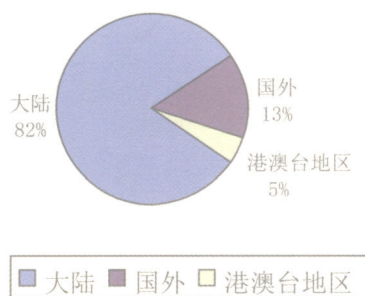
设计院、设计公司及个人0 (0%)。

国外: 27

院校: 7 (26%)

设计院、设计公司及个人: 20 (74%)。

提交作品人数比例



涉及的国家有:

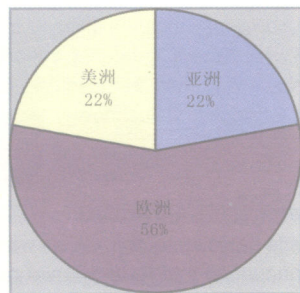
美洲国家 (占22%) 包括: 美国, 加拿大, 墨西哥; 欧洲国家 (占56%) 包括: 意大利, 葡萄牙, 法国, 俄罗斯, 德国, 瑞典, 西班牙, 捷克, 波兰; 亚洲国家 (除中国外) (占22%) 包括: 日本, 伊朗。

## 八、作品初评

2009年1月20日,大赛组委会将全部有效作品提交给初评专家组,经过评审专家近20天紧张而高效的初评工作,每位专家根据竞赛办法中规定的评比标准对每一件作品进行评审,各自选出60份进入终评的作品。组委会对所有专家的评审结果进行统计后,整理出综合得票数最多的前60份作品进入终评阶段。

## 九、作品终评

2009年台达杯国际太阳能建筑设计竞赛终评会于2009年2月23~24日在北京中国建筑设计研究院召开。经专家组讨论,一致推选德国不伦瑞克理工大学建筑与太阳能技术学院院长M.Norbert Fisch教授担任本次终评工作的评审组长。在他主持下,专家组活动按照简单多数的原则集体讨论和公正客观地评选作品,最终选出2项一等奖作品(绵阳及马尔康地区各一件)、4项二等奖作品、6项三等奖作品以及优秀奖作品40项。



reconstruction of Yang Jia Zhen School in Fucheng District, Mianyang, Sichuan province which would be rebuilt in a new place. According to the reconstruction plan, the construction drawings of Yang Jia Zhen "sunshine school" will be completed in May, 2009 by China Architecture Design & Research Group and others based on the awarded works revised and perfected according to the demands of the construction. The project will be started in construction in June, 2009 and finished and taken into use before term beginning in the spring, 2010.

## 6. Registration

The registration time of the competition is from June 25 to December 18, 2008. There are 1024 groups or teams registered. They are 866 of China (including Hong Kong, Macau and Taiwan) and 158 from abroad dealing with following countries and areas: China, USA, Canada, Mexico, Ecuador, Argentina, Italy, Portugal, France, Russia, Germany, UK, Sweden, Spain, the Netherlands, Greece, Ukraine, Czech, Poland, Finland, Australia, New Zealand, Iran, India, Japan, Pakistan, Malaysia, Korea and Indonesia.

## 7. Work submission

Up to January 18, 2009 the Organizing Committee has received 204 works from the whole world including 194 of effective ones and 10 of non-effective ones and 108 works designed for Mianyang area while 86 for Ma Er Kang area.

It can be subdivided as follows.

168 works come from China mainland:

139 works (83%) from colleges and universities

29 works (17%) from institutes or companies of building design and individuals.

9 works from Hong Kong, Macau and Taiwan:

9 works (100%) from colleges and universities

0 work (0%) from institutes or companies of building design and individuals.

27 works come from abroad:

7 works (26%) from colleges and universities

20 works (74%) from institutes or companies of building design and individuals.

Overseas works come from America (22%) including USA, Canada and Mexico, Europe (56%) including Italy, Portugal, France, Russia, Germany, Sweden, Spain, Czech and Poland and Asia (22%) including Japan and Iran.

## 8. Preliminary evaluation

On January 20, 2009 all effective works were submitted to the jury of preliminary evaluation by the Organizing Committee. The work of preliminary evaluation was going on tensely and effectively for near 20 days. Every jury member gave appraisal to every work according to the evaluation standard of the competition and chose 60 works for final evaluation. And then the Organizing Committee made a statistics of the evaluation result of the jury and arranged an order of the works. Top 60 of works with the most votes would enter the final evaluation.



终评会场一角 (Glance in the final evaluation conference)



现场讨论 (Discussion in the conference)

## 9. Final evaluation

Final evaluation of the international of solar building design competition 2009 was taken place in February 23~24, 2009 in Beijing at China Architecture Design & Research Group. By discussion of the jury Mr. M. Norbert Fisch, Professor of TU Braunschweig, President of the Institute of Architecture and Solar Energy Technology, Germany was elected as the director of the jury. Presided by him all jury members discussed and evaluated the works fairly and impersonally. Finally the awarded works were selected out including two of First Prizes (one in Mianyang and other one in Ma Er Kang area), four of Second Prizes, six of Third Prizes and 40 of Honorable Mentioned Prizes.

## 10. International Technical Exchange Seminar of Building Integrated Renewable Energy

Coordinated with the conference of final evaluation of the competition, a technical exchange seminar of building integrated renewable energy was taken place on February 25, 2009 by the Organizing Committee in China Architecture Design & Research Group. Prof. M. Norbert Fisch, jury member from Germany, had an introduction about demonstrated projects and experience of energy saving for German non-housing buildings. Prof. Lin Xinde, expert of green building of Taiwan, introduced the solar innovative design in Tai Nan Success School, "Green Magic School", and the characteristics of green materials as well, which is distributed Mr. Bruce Cheng, board chairman of Delta Electronic Group. Domestic architects, town planners, engineers, relevant research personnel of building technology and part of team members of the competition attended the seminar.

In June, 2009 the Organizing Committee will hold a ceremony of awarding prizes of the competition in the site of Yang Jia Zhen school project of Fucheng District, Mianyang together with the ceremony of construction starting. It is expected that more of awarded works can be applied in reconstruction of the disaster area and the sun shine will bring more hope to the children there.

## 十、组织国际可再生能源建筑集成技术交流会

为配合竞赛终评会，大赛组委会于2009年2月25日上午，在中国建筑设计研究院举办“国际可再生能源建筑集成技术交流会”，由德国评委M. Norbert Fisch教授介绍了德国在非住宅建筑节能方面的示范工程和经验，来自台湾的绿色建筑专家林宪德教授，则详细介绍了由台达电子集团董事长郑崇华先生个人捐建的台南成功大学“绿色魔法学校”的太阳能创新设计及绿色建筑材料的特色。与会者包括国内建筑师、规划师、工程师等与相关建筑技术研究人员及部分参赛团队。

2009年6月结合绵阳市涪城区杨嘉镇小学重建工程的开工仪式，竞赛组委会将在绵阳召开隆重的竞赛颁奖典礼。表彰获奖团队的同时，也期待能有更多的获奖作品可以用于灾后重建当中，让阳光为那里的孩子们带来希望。





# 2009台达杯国际太阳能建筑设计竞赛评审专家介绍

## Introduction of Jury Members of International Solar Building Design Competition 2009

### 评审专家: JURY MEMBERS:



崔恺：国际建筑师协会副理事，中国建筑学会副理事长，中国国家工程设计大师，中国建筑设计研究院总建筑师。

Mr.Cui Kai,Deputy Board Member of IUA (International Union of Architects);Vice President of Architectural Society of China;National Design Master and Chief Architect of China Architecture Design & Research Group.



Anne Grete Hestnes女士：前国际太阳能学会主席，挪威科技大学建筑系教授。

Ms.Anne Grete Hestnes,Former President of International Solar Energy Society and Professor of Department of Architecture,Norway Science & Technology University.



Deo Prasad Pacific：国际太阳能学会亚太区主席，澳大利亚新南威尔士大学建筑环境系教授。

Mr.Deo Prasad,Asia-Pacific President of International Solar Energy Society (ISES) and Professor of Faculty of the Built Environment,University of New South Wales,Sydney,Australia.



M.Norbert Fisch：德国不伦瑞克理工大学教授(Tu Braunschweig)，建筑与太阳能技术学院院长，德国斯图加特大学博士。

Mr.M.Norbert Fisch,Professor of TU Braunschweig,President of the Institute of Architecture and Solar Energy Technology,Germany and Doctor of Stuttgart University,Germany.



Mitsuhiro Udagawa: 国际太阳能学会日本区主席, 日本早稻田大学博士, 日本工学院大学建筑系教授。

Mr.Mitsuhiro Udagawa,President of ISES-Japan;Doctor of Engineering of Waseda University and professor of Department of Architecture,Kogakuin University.



林宪德: 台湾绿色建筑委员会主席, 日本东京大学博士, 台湾成功大学建筑系教授。

Mr.Lin Xiande,President of Taiwan Green Building Committee;Doctor of Tokyo University,Japan and Professor of Faculty of Architecture of Success University,Taiwan.



仲继寿: 中国可再生能源学会太阳能建筑专业委员会主任委员, 中国矿业大学博士。

Mr.Zhong Jishou,Chief Commissioner of Special Committee of Solar Building, Chinese Renewable Energy Society and Doctor of China University of Mining & Technology.



喜文华: 甘肃自然能源研究所所长, 联合国工业发展组织国际太阳能技术促进转让中心主任, 联合国可再生能源国际专家, 国际协调员。

Mr.Xi Wenhua,Director-General of Gansu Natural Energy Research Institute;Director-General of sustainable energy field from United Nations,international coordinator.



冯雅: 中国建筑西南设计研究院副总工程师, 中国建筑学会建筑热工与节能专业委员会副主任, 重庆大学博士。

Mr.Feng Ya,deputy chief engineer of Southwest Architecture Design and Research institute of China;deputy director of special committee of building thermal and energy efficiency,Architectural Society of China,Doctor of Chongqing University.



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