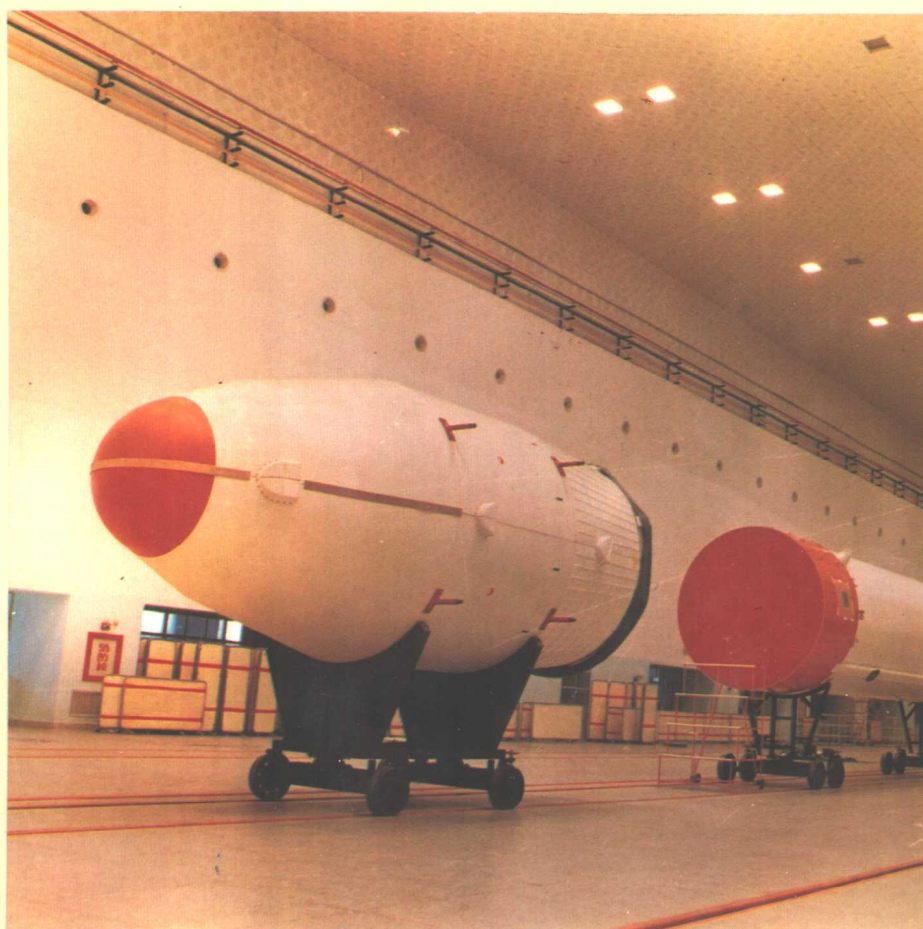


# 中國優秀工程設計

**Excellent Project Designs of China**



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《中國優秀工程設計》編委會

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# 中國優秀工程設計



# **EXCELLENT PROJECT DESIGNS OF CHINA**



大胆探索 勵志圖新 加快  
我國現代化建設步伐

谷牧

一九九〇年秋月





活跃设计思想  
切技术赶上  
世界先进水平

为中国优秀工程  
设计图集题

韩光 题  
五月廿一日



蔡东来设计制外，  
相信社会主义是  
图。

林语冰

礼部十月



# 前言

建國四十多年來，我國工程設計行業廣大技術人員勤勤懇懇、兢兢業業，為社會主義建設做出了成千上萬個工程項目設計，取得了很大成績。特別是改革開放以來，我國國民經濟出現了蓬勃發展的新局面，國家集中了必要的財力、物力和技術力量，高質量、高效率、高水平地建設了一批以能源、交通、通信和原材料為重點的項目。全國廣大勘察設計人員為此作出了重大貢獻，創作出了一批優秀設計。如七十年代設計建成的攀枝花大型鋼鐵聯合企業，設計中採用了一系列新工藝、新技術，攻克了釩鈦礦冶煉的難關，是世界冶金史上的一項突破；規模宏偉的葛洲壩水電站，裝機容量達 221.5 萬千瓦，居全國第一；京漢廣中同軸電纜載波工程，跨越五省、市，全長 2702 公裏，標志着我國國際通信進入全球電話時代；

大慶乙烯原料工程工藝研究項目，設計中解決了原油密閉集輸低壓、油田氣和輕烴集輸油田氣處理加工等工程問題，取得了五項科技成就，經濟效益十分顯著。

為了總結經驗，發揚成績，表揚先進，從 1980 年開始在全國範圍內開展評選優秀設計活動。十年來國家評選了四屆優秀工程設計，共評出全國優秀工程設計 665 項，現將獲獎項目匯總編印成《中國優秀工程設計》大型系列畫冊。本畫冊薈集了全國四屆優秀設計項目，內容豐富、資料翔實、圖文並茂，形象直觀地反映了各優秀工程設計項目的特點，體現了我國設計行業的最高水平。本系列畫冊是一部裝幀精美的綜合性文獻，對廣大設計單位和設計人員具有長期保存的歷史價值和現實的參考價值。本系列畫冊獻給全國勘察設計人員和關心支持我國勘察設計事業發展的人們。

吳爽良

# PREFACE

Since the founding of the People's Republic of China, project designers have worked out designs for thousands of projects with painstaking efforts for the construction of socialism. Great achievements have been accomplished, especially since the program of reform and opening to the outside world was put into practice and China's economy shows a prosperous uprise, so the government gathered finance, materials and technologies to construct an array of hi-quality and efficiency projects focused on energy, communications, telecommunication, and raw materials. Many surveying and designing professionals have made significant contributions to create a large number of designs. For examples Panzhihua Iron and Steel Complex, designed and constructed in the 70s, adopted a series of new technologies and techniques in its designing, thus overcoming the difficulty of smelting vanadium and titanium ores, a breakthrough in world metallurgical history; Huge project Gezhouba Hydropower Station has a total installation capacity of 2.215 million KW, the largest in this country; Beijing-Wuhan-Guangzhou central shaft cable carrier project span across five provinces at a total length of 2700 km, which symbolizes China's international communication has entered a global telephone era; Daqing ethylene

raw material engineering technology research project design solves the processing and treating problems of crude oil tight concentrated transfusion low-pressure oil pit gas and hydrocarbon concentrated-transfusion oil pit gas and has accomplished five scientific and technological achievements and gained remarkable economic results.

To sum up good experience, to praise the advanced and to achieve more, a nationwide excellent projects selection started in 1980. Over the past decade, four selections of excellent project designs have been finished, a total of 665 pieces of designs have been selected. Today we've compiled these prize-winning designs into a pictorial album series **EXCELLENT PROJECT DESIGNS OF CHINA**, which has a rich content, detailed and truthful reference materials. Its fine pictures and words show vividly the characteristics of every excellent project design and also the highest level of designing in China. This pictorial album is a comprehensive work with elegant binding and layout and embodied with historic and practical value to designing institutes and designers. We hope to devote this album to our designers and those who care and support the development of China's surveying and designing cause.

Editorial Board

Wu Yiliang

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# 上海吳涇2.6萬噸冷庫工程

上海市吳涇2.6萬噸冷庫工程位於上海市東南郊的吳涇地區，是一座具有鐵路、公路聯運條件的大型分配中轉性冷庫，由四座庫房組成，設計冷藏能力5.2萬噸（ $4 \times 13000$  噸），再凍能力每次56噸。該工程設計主要工程分兩期進行。第一期工程（兩座庫房， $2 \times 13000$  噸）被評為國家優秀設計金質獎。

設計主要優點：選址適宜，總體佈置緊湊，庫房利用率高，建築造形美觀大方；庫區生產區與生活區劃分明確，平面佈局突出分配中轉性冷庫的特點，能同時開4條作業綫路供水路、鐵路、公路裝卸，吞吐靈活，速度快，製冷系統採用集中機房，並設有自控室和計算機房，製冷裝置和倉儲採用微型計算機管理，使倉儲利用率和單位能耗達到國內先進水平。

該工程由上海市第二商業局設計室設計

Located at Wujing Region in the suburb of Shanghai, the Wujing Cold Storage with capacity of 26,000 tons, is a large transfer station for distributing frozen food by railway and land transportation system, composing of 4 large storages with total designing capacity of 52,000 tons ( $4 \times 13,000\text{T}$ ) and the refrigerating capacity of 56 tons per batch.

The first term project of Shanghai Wujing Cold Storage has won the State Silver Medal.

The prominent advantages of design are as follows:

Proper choice of location; compact lay-out of planning; distinct demarcation between production and living section; beautiful architecture; and full utilization of the storages. Being a large transfer station, the Wujing Cold Storage has 4 production lines which can be used for load and unload by ship, train, and truck simultaneously, they are not only flexible for the swallow & spit of frozen food but also quick in operation speed. The refrigeration system is lay in a central mechanical house and automatically controlled by the computers, all refrigeration devices and storage operations are controlled by microcomputers, thus it make the two index of utilization ratio of storage and the unit consumption of energy come up to the domestic advanced level.

The project was designed by Designing Office attached to No.2 Commercial Bureau in Shanghai





# SHANGHAI WUJING 26,000T COLD STORAGE PROJECT

