

ROUGH OUTLINE FOR  
BOOK ON CHINESE ENGINEERING.

A. Chinese ideas of fundamental engineering sciences:

Mathematics - arithmetic, algebra, geometry, etc

Physics - mechanics, hydraulics, strength of materials, etc

Chemistry

B. Chinese accomplishments in the engineering field:

Excavation - the Grand Canal, drainage

Heavy construction - the Great Wall

Ship building - harbours

Bridges - the engineering side of architecture

Tunnelling - mining

Highways

Mechanical devices

Surveying - the construction of mathematical instruments

Fortifications

Heat utilization - pottery kilns, furnaces, etc

Hydraulics - water supply, sewerage

Agricultural engineering - implements

Metallurgy