

ENGINEERING WONDERS OF THE WORLD

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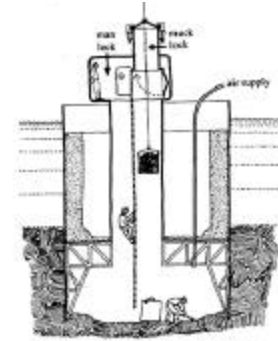
- ◆ Bridges
- ◆ Tunnels
- ◆ Dams
- ◆ Canals
- ◆ Hydroelectric
- ◆ Architecture

Bridges

- ◆ Caisson
- ◆ Forth Bridge
- ◆ Clifton Bridge
- ◆ Brooklyn Bridge
- ◆ Verrazano-Narrows Bridge
- ◆ London Tower Bridge
- ◆ Chesapeake Bay Bridge-Tunnel

Caisson

- ◆ Watertight Chamber
- ◆ Excavation
- ◆ Brooklyn Bridge
- ◆ Caisson's Disease



Forth Bridge



Forth Bridge

- ◆ "Most Famous Bridge In The World"
- ◆ Railway Bridge - Scotland Over Firth At Forth
- ◆ Cantilever Bridge
 - ◆ Quebec Bridge (1917) - 1800 feet Span
- ◆ Two Main Spans
 - ◆ 1710 feet Each
- ◆ Total Length - Greater Than 1 mile
- ◆ Erected 1882 To 1890
- ◆ Sir John Fowler & Sir Benjamin Baker

Clifton Bridge

- ◆ Suspension Bridge - Developed Mid 1800s
- ◆ Clifton Bridge - Bristol, England



Brooklyn Bridge

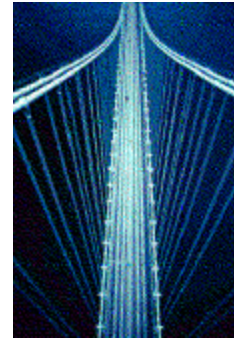


Brooklyn Bridge

- ◆ Connects Brooklyn & Manhattan
- ◆ Erected 1869 To 1883
- ◆ Suspension Bridge
 - ◆ Longest In World 1883
 - ◆ Main Suspension Span - 1595 feet
 - ◆ Total Length - 6775 feet
- ◆ Designer - John August Roebling
- ◆ Construction - Washington August Roebling
- ◆ Wire Cable, Wire Wrapping & Caissons

Verrazano-Narrows Bridge

- ◆ Connects Long & Staten Island
- ◆ Entrance To New York Harbor
- ◆ Suspension Bridge
 - ◆ Main Span - 4260 feet



Suspension Bridges

- ◆ Schuylkill River, Philadelphia (1816)
 - ◆ First Wire Cable
- ◆ Ohio River, Wheeling (1846) - 1010 feet
 - ◆ Roebling
- ◆ Brooklyn (1883) - 1595 feet
- ◆ George Washington (1931) - 3500 feet
- ◆ Golden Gate (1937) - 4200 feet
- ◆ Mackinac (1958) - 3800 feet
- ◆ Verrazano-Narrows (1964) - 4260 feet
- ◆ Humber Estuary, England (1980) - 4626 feet