

The background of the cover is a photograph of the Golden Gate Bridge at night. The bridge's towers and suspension cables are illuminated with a warm, golden light, which is reflected in the dark water of the bay. The sky is a deep, dark blue, suggesting twilight or early evening. The overall mood is serene and majestic.

**Bridge Engineering Handbook**  
SECOND EDITION

**SUBSTRUCTURE  
DESIGN**

EDITED BY  
**Wai-Fah Chen and Lian Duan**

# Bridge Engineering Substructure Design

**Wai-Fah Chen, Lian Duan**



## **Bridge Engineering Substructure Design:**

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