



Design Loads

Snow Loads



$$S = S_s (C_b C_w C_s C_a) + S_r$$

Wind Loads



Tacoma Narrows Bridge

Wind Gust Effects



Earthquake Failure



**Loma Prieta Earthquake
Marina District, San Francisco**

Earthquake Failure



Kobe, Japan

Earthquake Failure



Kobe, Japan

Earthquake Failure



Anchorage, Alaska