

Boiling Water Pressure Vessels

Chapter 18 in Shah

- **Main Problems:**
 - 1.) **Fatigue**
 - 2.) **Intergranular Stress Corrosion Cracking (IGSCC)**
 - 3.) **Stress Corrosion Cracking (SCC)**
- **See Figure 18-1 and 18-2**
- **BWR Vessels Bigger Than PWR**

diameters 5.54 to 6.38 m
- **Early vessels of SA302B**
- **After 1965, used SA533B**
- **See Table 18-1**
- **Neutron exposures lower (see figure 18-8)**
- ***Lifetime exposures 5×10^{17} to 5×10^{18} n/cm²***
- **Note effect of recent regulations**

Figure 18-12
Very little effect $< 10^{17}$