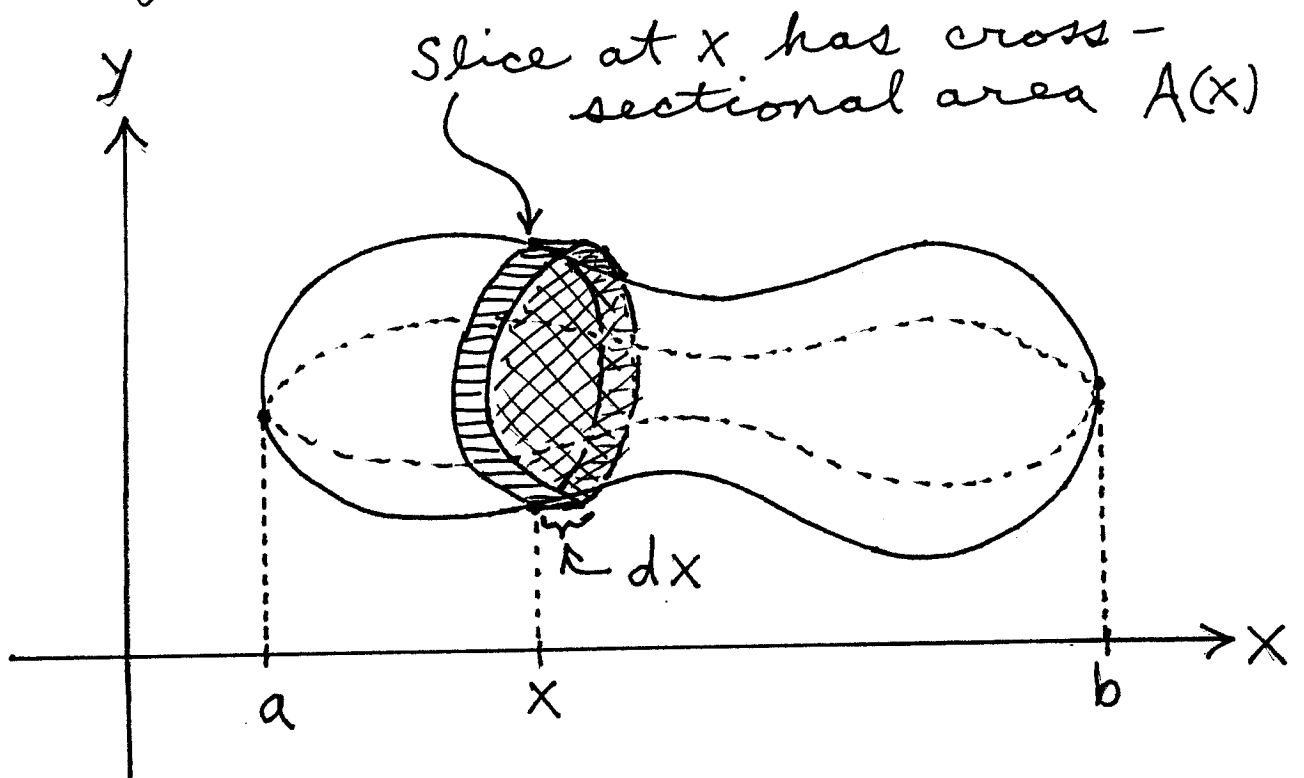


Volume of Static Solid Using Cross-Sectional Area



Thin slice of solid has volume $A(x) \cdot dx$, so total volume of solid is

$$\text{Volume} = \int_a^b A(x) dx$$