

(2) If the iron in the Earth's core were made into a wire as long as the radius of the visible universe, what would be the diameter of the wire?

The Earth's core, mostly iron, has a radius about half the Earth's radius. Its volume is about  $10^{26}$  cm<sup>3</sup>, enough to make a wire  $10^{28}$  cm long with a diameter of 1 mm.