Topics/Concepts

Energy release during accretion and differentiation
Role of $^{26}$Al, $^{60}$Fe, long-lived nuclides; half-life vs. diffusion timescale
Atmosphere accretion, atmospheric blowoff, noble gas isotopes
Fragmentation, accretion efficiency, hit-and-run collisions, dynamical friction

Equations

Self-gravity: $\Delta E = \frac{3}{5} \frac{GM^2}{R}$

Isotropic angular distribution $p(\varepsilon)d\varepsilon = \frac{1}{2} \sin \varepsilon \, d\varepsilon$

References


