

SECTION OVERVIEW

5.4: The Gravitational Fields of Various Bodies

In this section we calculate the fields near various shapes and sizes of bodies, much as one does in an introductory electricity course. Some of this will not have much direct application to celestial mechanics, but it will serve as good introductory practice in calculating fields and, later, potentials.

Topic hierarchy

[5.4.1: Field of a Point Mass](#)

[5.4.2: Field on the Axis of a Ring](#)

[5.4.3: Plane discs](#)

[5.4.4: Infinite Plane Laminas](#)

[5.4.5: Hollow Hemisphere](#)

[5.4.6: Rods](#)

[5.4.7: Solid Cylinder](#)

[5.4.8: Hollow Spherical Shell](#)

[5.4.9: Solid Sphere](#)

[5.4.10: Bubble Inside a Uniform Solid Sphere](#)

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