Figures illustration for the codes explanation (magnetic force calculation)

**Muscle-Inspired Elasto-Electromagnetic Mechanism in Autonomous Insect Robots**

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1. ***Geometry of the coil defined***



1. ***Definition of the sphere coordinates based on the hard magnet***



1. ***adsff***

The integrated spheres exhibit soft magnetic properties. When subjected to a magnetic field, each sphere is magnetized and generates a magnetic moment, which then interacts with the hard magnet to induce magnetic forces. The initial magnetic field  applied on each sphere inc