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You are correct, stainless steel is a really poor conductor compared to most metals. This source lists it as $7.496 \times 10^{-7} \text{ } \mathrm{\Omega \cdot m}$ which is more than 40 times worse than copper.. The reason is that conductivity in metals is high is that metals form a crystal lattice where the outer shell electrons are shared and easily move through the lattice.

Why is stainless steel a poor conductor of electricity?

A galvanic cell or voltaic cell, named after Luigi Galvani or Alessandro Volta, respectively, is an electrochemical cell that derives electrical energy from spontaneous redox reactions taking place within the cell. It generally consists of two different metals immersed in an electrolyte, or of individual half-cells with different metals and their ions in solution connected by a salt bridge or ...

Galvanic cell - Wikipedia

Diamond is a solid form of the element carbon with its atoms arranged in a crystal structure called diamond cubic. At room temperature and pressure, another solid form of carbon known as graphite is the chemically stable form, but diamond almost never converts to it. Diamond has the highest hardness and thermal conductivity of any natural material, properties that are utilized in major ...

Diamond - Wikipedia

Fermi energy level is defined highest energy level below which all energy levels are filled at ok. But in the case of a semiconductor there is no allowed energy level between the valence band and ...

Why does the Fermi energy level lie in the centre of the ...

This paper reflects the achievements and the challenges ahead in the field of organic light emitting diodes (OLEDs). The primary intention of this paper is to study different organic materials synthesized so far and the OLEDs fabricated for solid-state lighting.

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