

# Plasma physics

- Plasma physics studies the properties, dynamics, and applications of plasma, a state of matter consisting of free ions and electrons
- It is essential for understanding phenomena in both space and fusion energy research
- Plasma is often called the "fourth state of matter," existing naturally in stars and artificially in neon signs and plasma TVs
- Research in plasma physics is critical for developing technologies like controlled thermonuclear reactors

## Practical example: Lightning

- Plasma physics plays a crucial role in understanding lightning
- Lightning is essentially a natural plasma discharge where electrons flow between clouds, or between a cloud and the earth, due to electrical imbalances
- When this rapid movement of electrons occurs, it ionizes the surrounding air, turning it into plasma
- This process releases energy in the form of light and heat, manifesting as the brilliant flash and the intense heat we observe during a lightning strike



# Fundamentals Of Plasma Physics

**Ian Pickup**



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