

Reluctance means a state of being unwilling, unready, or slow to act. In physics and engineering, it has a separate technical definition as a material's opposition to magnetic flux.

General and Psychological Meaning

- Unwillingness: A clear preference against doing something, often due to doubt, fear, or a bad feeling.
- Hesitation: Pausing before an action because you are not sure if it is right.
- Everyday example: Showing a deep reluctance to change old habits or speak in front of a crowd.

Physics and Engineering Meaning

- Magnetic resistance: In an electrical or magnetic circuit, it acts like resistance does for electrical current.
- Flux opposition: It measures how much a specific core or material fights against magnetic lines passing through it.