



SurTech

## TOPIC - Friction

Title: The Invisible Force that Shapes our Daily Lives

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# Introduction to Friction

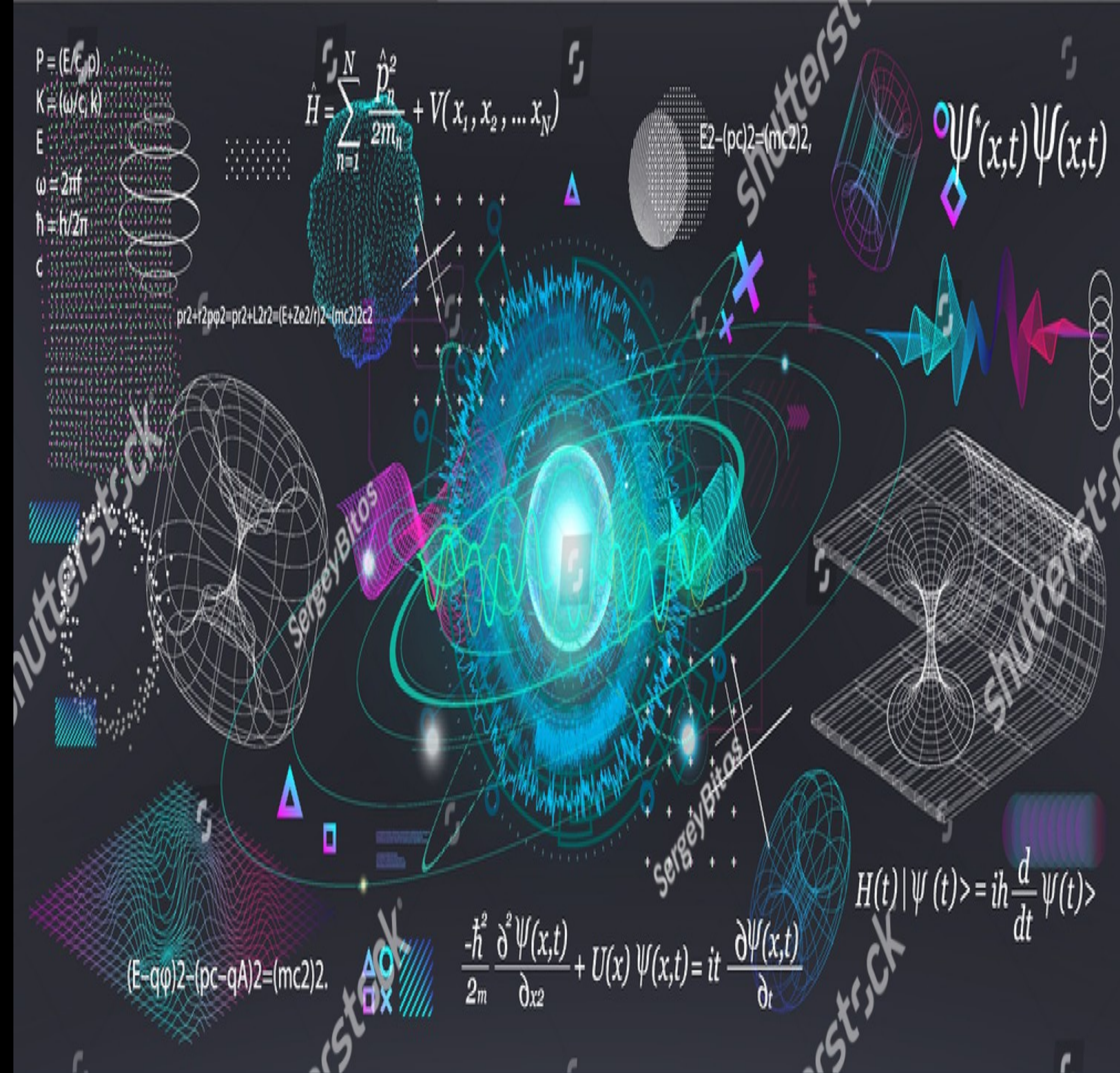
- Definition of Friction
- Importance in our Daily Lives
- Types of Friction: Static, Kinetic, Rolling





## Types of Friction

- **Static Friction:** Objects at rest.
- **Kinetic Friction:** Objects in motion.
- **Rolling Friction:** Occurs when a round object rolls over a surface.





## Causes of Friction

Surface Roughness  
Interlocking of Surface  
Asperities  
Adhesion between  
Molecules

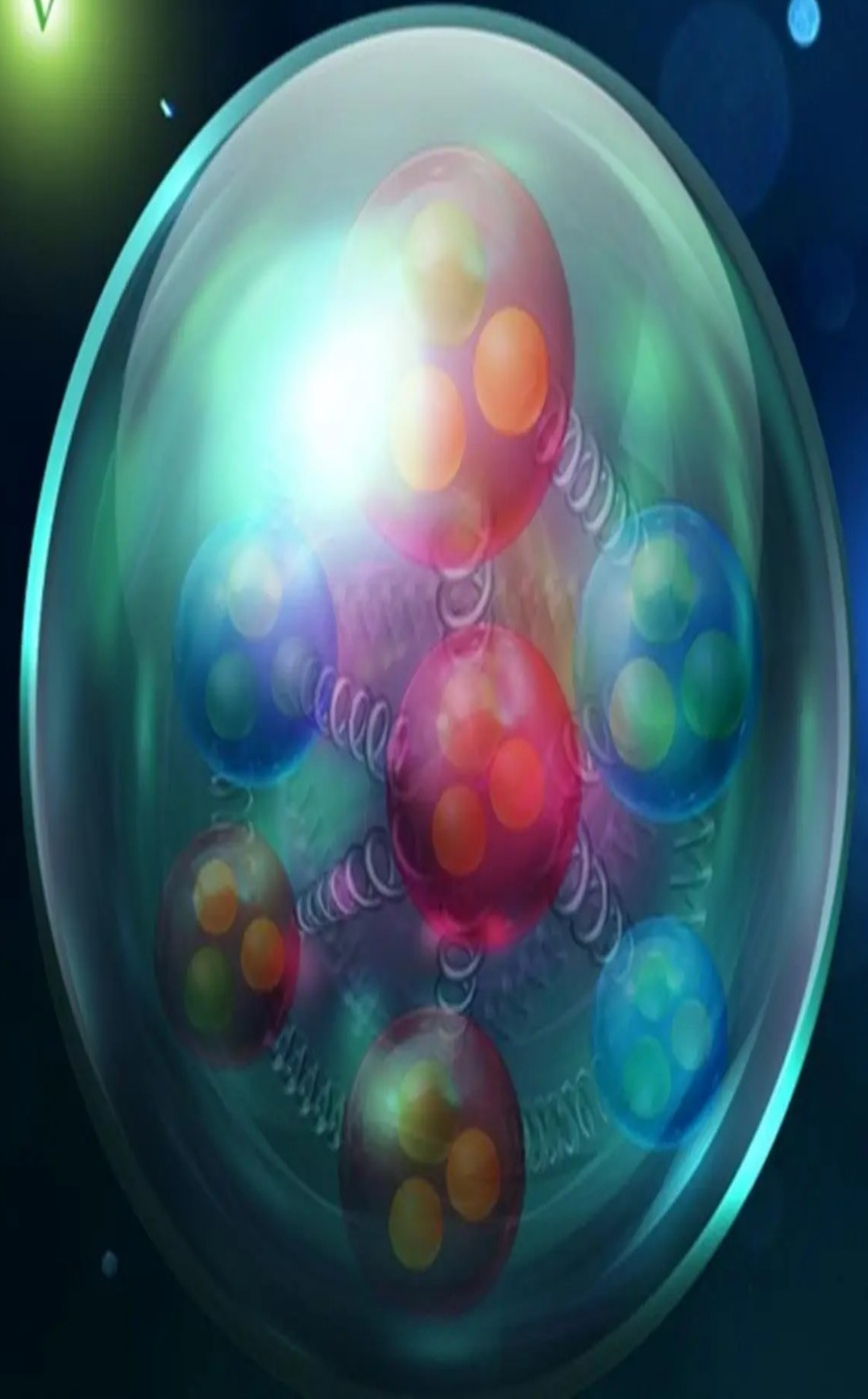


## Factors Affecting Friction

- Normal Force
- Surface Area
- Types of Surfaces
- Temperature

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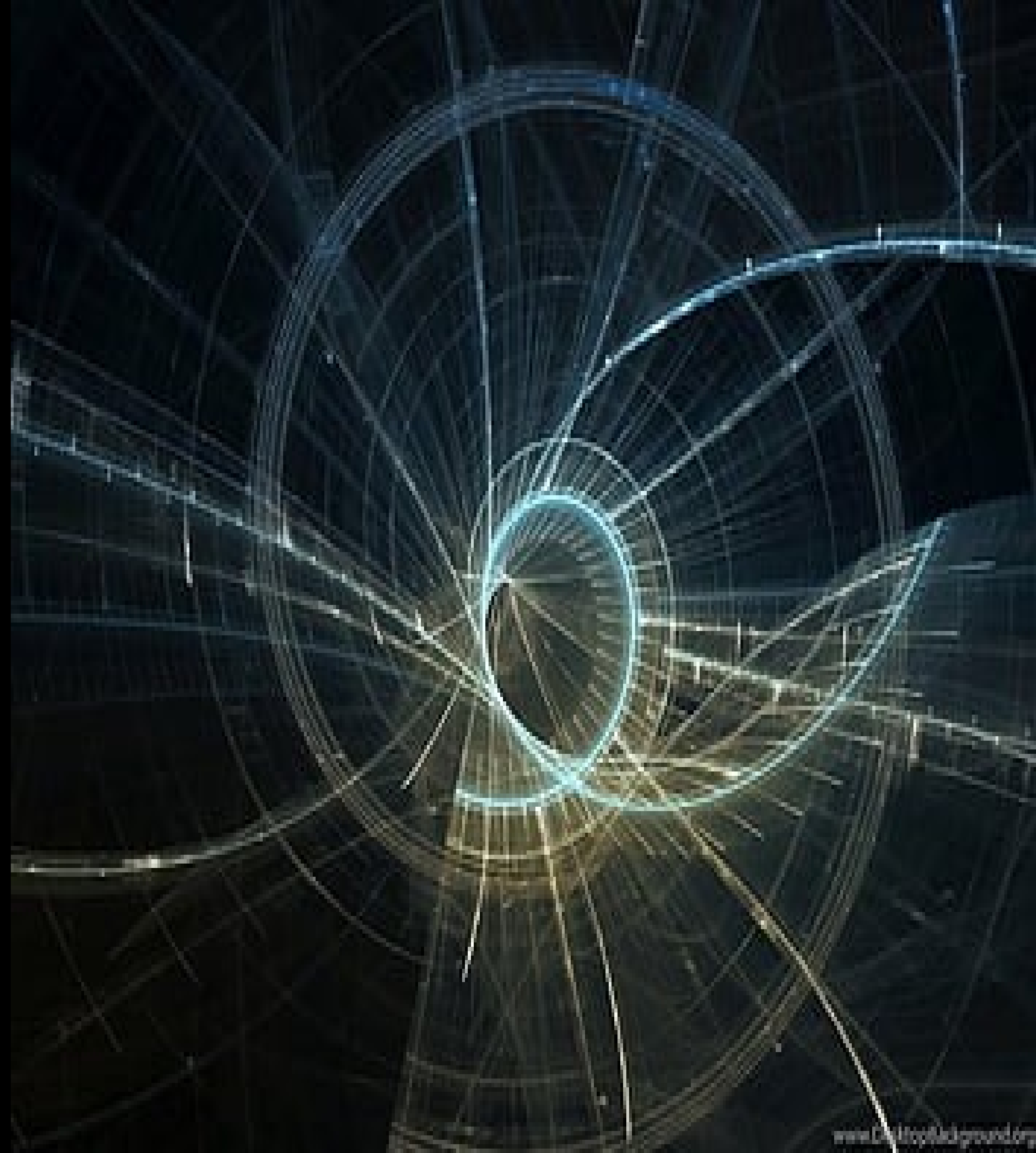
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## **The Role of Friction in Everyday Life**

- Walking and Running
- Braking in Vehicles
- Writing with a Pen or Pencil
- Opening and Closing Doors





## Benefits of Friction

- Traction in Vehicles
- Writing and Drawing
- Gripping Objects

