

Expert lecture by Dr. V.K. Gupta



















• Navigation

Quantum magnetometers used for MagNav



The Q-CTRL magnetometers are ultra-precise, portable magnetometers based on optical detection of atomic spin precession using a vacuum cell containing rubidium atoms in a buffer gas.



Introduction

- Indore, India's top cleanliness city, also ranks highest in road accidents in Madhya Pradesh, with 6,875 accidents recorded in 2024, up from 5,714 in 2023.
- Road accident deaths in Madhya Pradesh increased significantly in 2024 as compared to 2023.
- Road accidents are caused by a combination of human error, road conditions.

Why Do We Need to Predict Road Accidents?

- To Save Lives and Prevent Injuries
- To Identify High-Risk Areas (Accident Hotspots)
- Weather & Traffic Condition Awareness
- Improved Emergency Response
- Better Government Planning & Policy

Statista Research Division 2025



