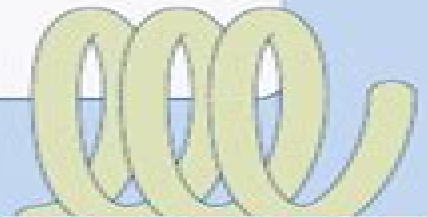




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# AN INTRODUCTION TO **LASERS:** Principles And Applications

JAVNIKA NAIN  
2023/13/202



## INTRODUCTION TO LASERS

A laser is a device that produces a beam of intense, focused, monochromatic, and coherent light through the process of stimulated emission of radiation.

**LASER** stands for Light Amplification by Stimulated Emission of Radiation.

### key Features of laser light:

- **Monochromatic:** One specific wavelength or color
- **Coherent:** All light waves are in phase
- **Directional:** Very narrow and focused beam
- **High intensity:** Strong and concentrated energy



Ordinary light



Monochromatic,  
incoherent light



Monochromatic,  
coherent light

## Spontaneous and Stimulated Emission

Spontaneous Emission

Stimulated Emission

# Lasers Principles And Applications Solution Manual

**Sebastian Brünink**



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