



Fiber Optic Temperature Sensors

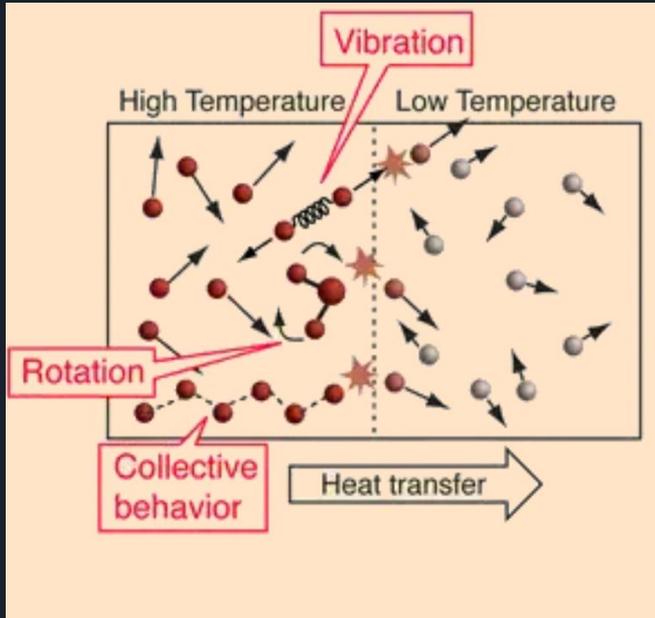
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Temperature



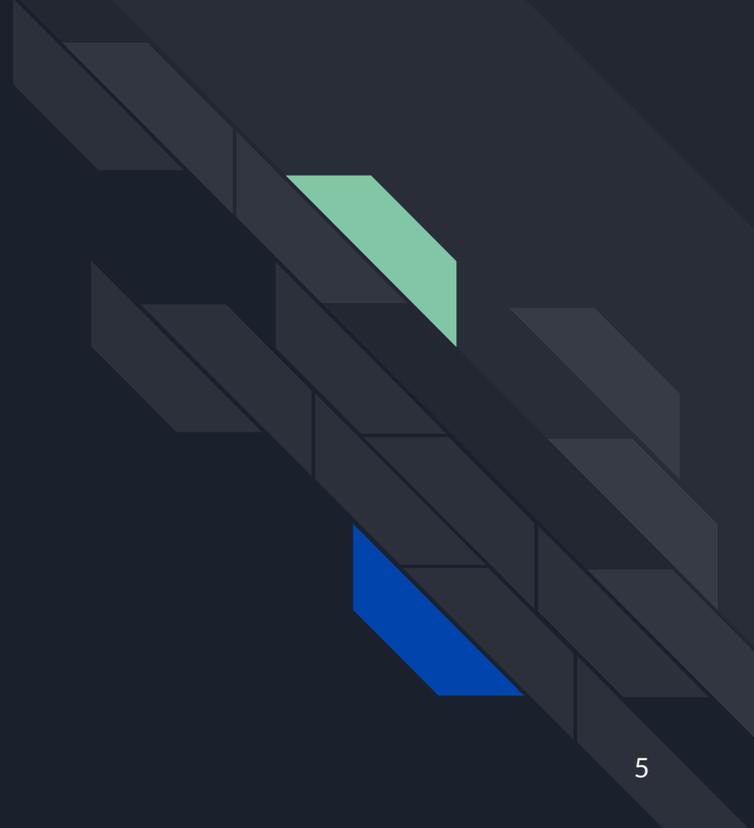
- A measure of average kinetic energy
- Movements are random
- Movements are rotation and vibration



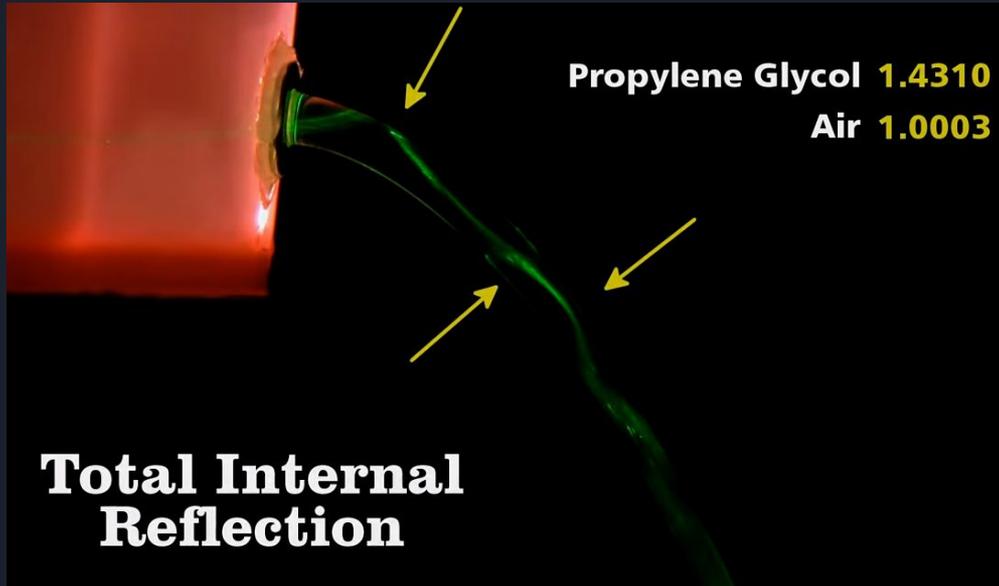
Temperature is Important!

- Disease detection for humans
- Temperature of engine of cars
- Weather forecast to predict next sunday rain
- Machine failure detection
- Temperature of CPUs

How it works?

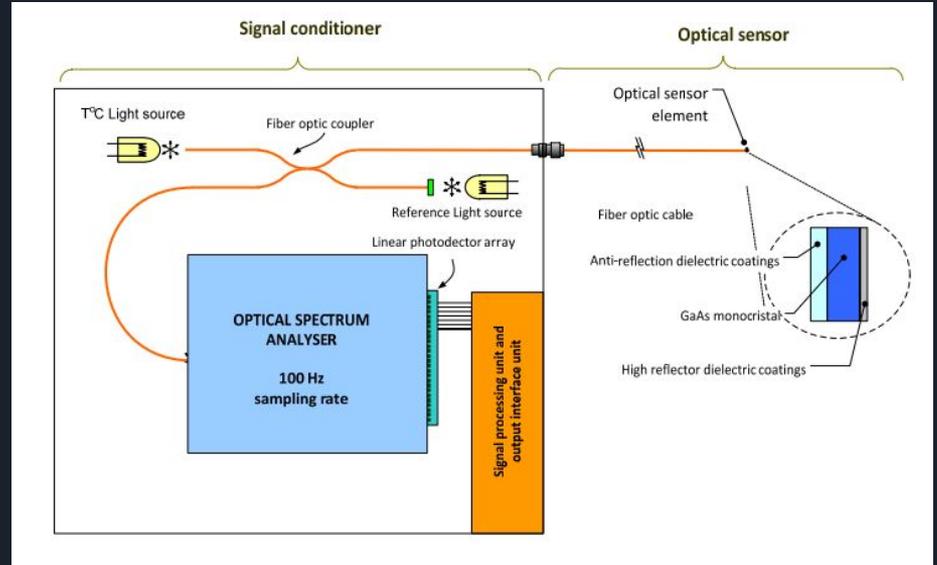
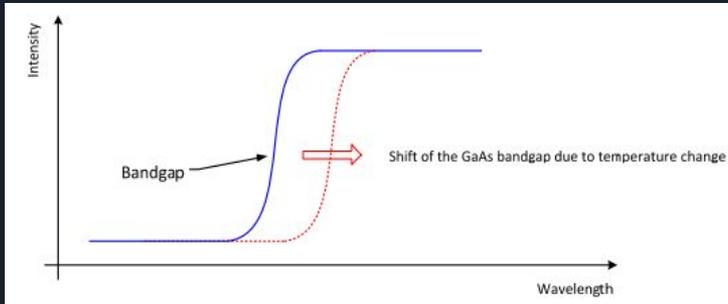
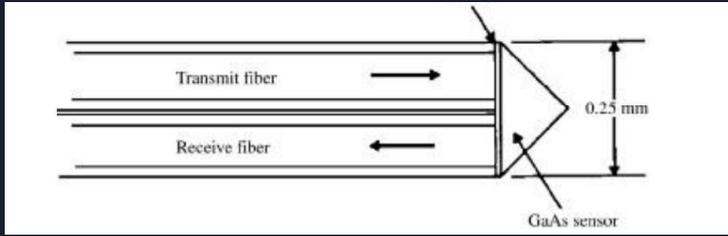


Fiber optic cables

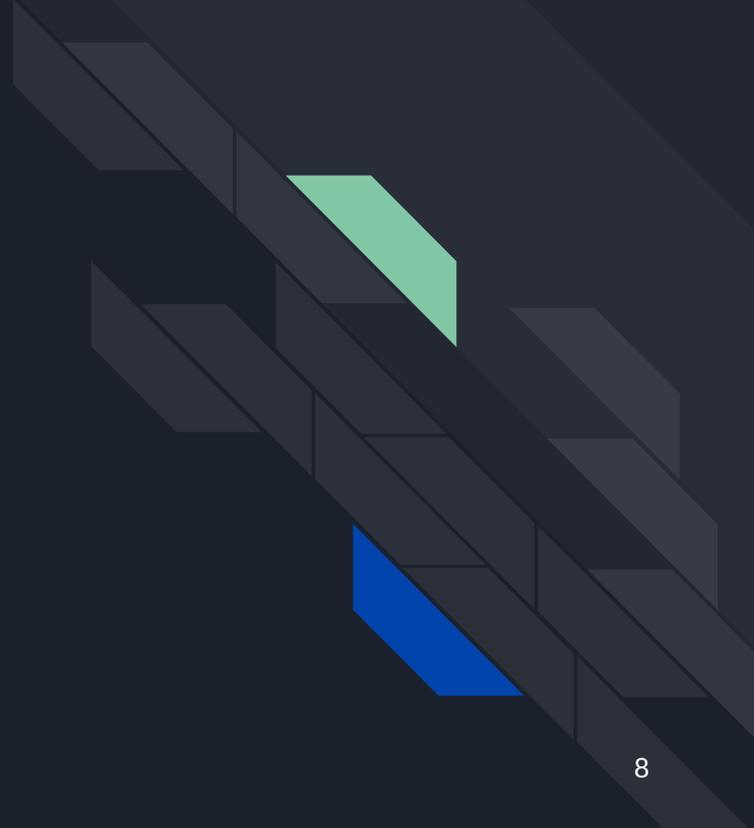


- Reflection
- Refraction
- Total Internal Reflection and Critical Angle
- TAT-8 Telecommunication Cable

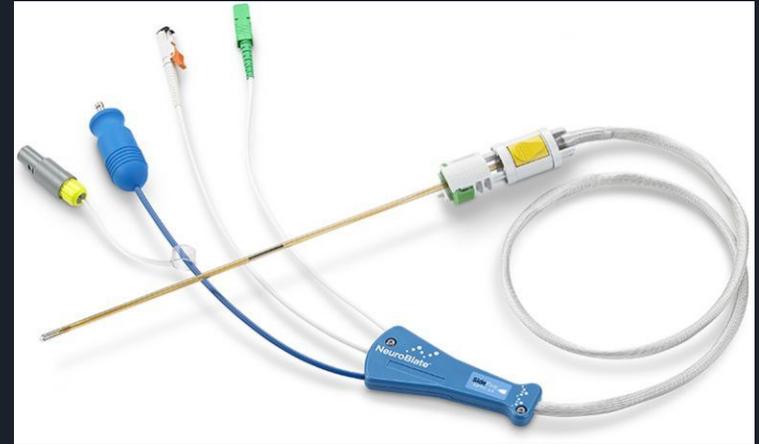
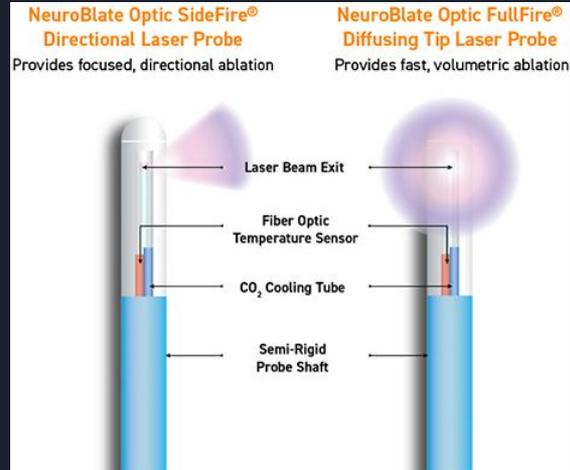
Fiber Optic Temperature Sensor



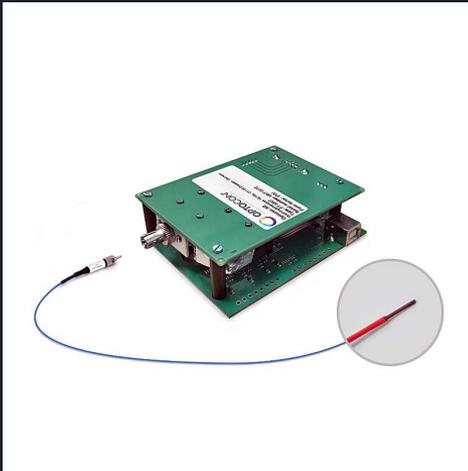
Usage Areas



Medical



- Environmental
- Chemical and petrochemical
- Microwave and radiofrequency environments
- Generator and transformer





References

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Thank you!