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## APPLICATIONS OF MICROWAVE ENGINEERING

- Antenna gain is proportional to the electrical size of the antenna. At higher frequencies, more antenna gain is therefore possible for a given physical antenna size, which has important consequences for implementing miniaturized microwave systems.
- More bandwidth can be realized at higher frequencies. Bandwidth is critically important because available frequency bands in the electromagnetic spectrum are being rapidly depleted.
- Microwave signals travel by line of sight are not bent by the ionosphere as are lower frequency signals and thus satellite and terrestrial communication links with very high capacities are possible.
- Effective reflection area (radar cross section) of a radar target is proportional to the target's electrical size. Thus generally microwave frequencies are preferred for radar systems.

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