

Photonics Systems in Satellite Applications

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Abstract

Photonics is an emerging technology which combines electronics and optics to develop improved communication, information, or signal processing systems. This presentation reviews some basic optical and electronic concepts and gives some examples of how the methodology that was used in developing today's sophisticated computing systems could also be applied to the development of more advanced photonic systems.

Some examples of how photonics can be applied to great advantage in space exploration will also be given.