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fiber optic technology emerged originally for applications in data transmission and telecommunications however sensors based on fiber optics have been developed rapidly because of their excellent sensing performances and capability to function in remote and harsh environments

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abstract it is anticipated that integrated sensing and communications isac would be one of the key enablers of next generation wireless networks such as beyond 5g b5g and 6g for supporting a variety of emerging applications in this paper we provide a comprehensive review of the recent advances in isac systems with a particular focus

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sensing in a network setting with the evolution of 4g to 5g the spectrum allocations have expanded towards higher frequencies this trend will continue and communication spectra in the sub terahertz region will likely be available as some of the frequency bands for 6g deployments

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the authors explain the underlying physics and practical aspects topics covered include photosensitivity properties inscribing grating detailed applications coverage in both telecommunications and sensing and a look at the technology of this technology on the marketplace source nielsen book data

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a sensing technology detects physical or biological phenomena and turns that information into electric signals which can be interpreted for a variety of purposes well known sensing technologies include security cameras passive infrared pir motion sensors and radar

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fiber bragg grating fbg is widely used in many applications including telecommunication systems 1 and sensing purposes in sensing applications fbg has been used to monitor temperature

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the motion patterns of objects are similar and their trajectories tend to be linear additionally unlike conventional remote sensing imagery remote sensing video satellites capture imagery with high frame rates which results in high scene overlap in the captured landscapes and significant overlap of the same object between adjacent frames

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