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Abstract. This chapter describes concepts for the realization of millimeter-wave receivers. The general mixing principle is introduced and resulting spectral content is analytically described for up- and down-conversion. Based on this principle different topologies for receivers in the millimeter-wave regime are outlined.

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Millimeter-Wave Receiver Concepts. February 2012; DOI: 10.1007/978-1-4614-2290-7\_4. In book: Millimeter-Wave Receiver Concepts for 77 GHz Automotive Radar in Silicon-Germanium Technology (pp.33-47)

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The wavelength of electromagnetic radiation is given by  $\lambda = c/f$ , where  $c = 3 \times 10^8$  m / s is the speed of light and  $f$  is the frequency (in Hz). The millimeter-wave band thus corresponds to a wavelength range of 10 mm at 30 GHz decreasing to 1 mm at 300 GHz.

## **Millimeter Wave - an overview | ScienceDirect Topics**

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Millimeter waves—waves measured between one millimeter to one centimeter in wavelength—have only recently been explored as a new technology to replace the augment receiver architectures. These small

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wavelengths introduce many engineering challenges, such as: large atmospheric losses, poor sensitivity, and expensive electronic equipment.

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Expand/Collapse Synopsis. The book presents the analysis and design of integrated automotive radar receivers in Silicon-Germanium technology, for use in complex multi-channel radar transceiver front-ends in the 77GHz frequency band. The main emphasis of the work is the realization of high-linearity and low-power modular receiver channels as well as the investigation of millimeter-wave integrated test concepts for the receiver front-end.

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