Physics Formula Sheet

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CHAPTER 32

Communication Systems

Modulation

MODULATION INDEX (AM)

$$\mu = \frac{A_m}{A_c}$$

Not in the current JEE Main syllabus; kept for older papers.

SIDEBANDS

$$f_c \pm f_m; \qquad \text{bandwidth} = 2f_m$$

ANTENNA AND RANGE

$$\text{antenna length} \approx \frac{\lambda}{4}; \qquad d = \sqrt{2Rh_T} + \sqrt{2Rh_R}$$

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