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Instructors dr bassem r mahafza is the president and founder of decibel research inc he is a recognized subject matter expert and is widely known for his three textbooks introduction to radar analysis radar systems analysis and design using matlab and matlab simulations for radar systems design. Radar systems analysis and design using matlab applied technology institute the radar equation the antenna gain is also related to the azimuth and elevation beam widths by an accurate approximation for antenna gain is the power density at a given range from the radar using a directive antenna is then given by $1.4 \frac{g^2}{k^2} \frac{P_t}{r^2}$.

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