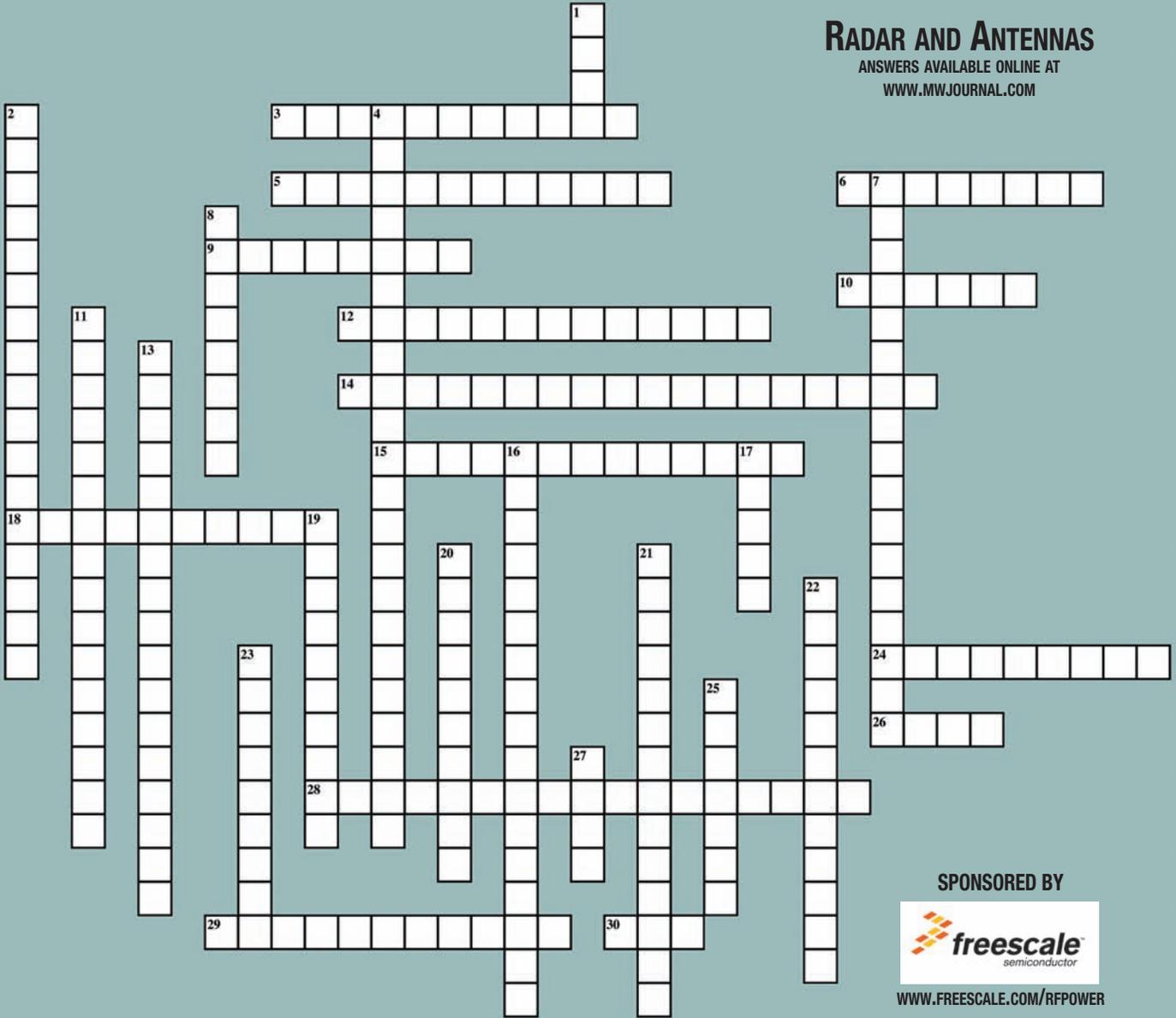




RADAR AND ANTENNAS

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ACROSS

- 3 The degree to which an input signal is reduced in amplitude at the output of a circuit or device
- 5 A circuit that splits the power of an input signal into two or more locations without producing impedance mismatch (2 words)
- 6 A circuit or system that allows the ability to transmit and receive two distinct signals simultaneously
- 9 A three-port circulator with one of its ports terminated with its characteristic impedance
- 10 The frequency interval from 12.4 to 18 GHz
- 12 The apparent shift in frequency of an incident wave that is the result of relative velocity between the emitter of the wave and the receiver of the wave (2 words)
- 14 The ratio of the magnitude of a desired signal to that of noise (4 words)
- 15 The ratio between the amplitude of the output signal of a device or circuit compared to the amplitude of its input signal (2 words)
- 18 At a given point in a transmission system, the difference between the incident and reflected power (2 words)

- 24 The vector ratio of voltage to current, the reciprocal of admittance
- 26 Ratio between the amplitude of the output signal of a device or circuit compared to the amplitude of the input signal
- 28 A circuit or device that prevents incident high power, potentially-damaging signals from propagating to sensitive receiver components (2 words)
- 29 A signal processing technique used in sensor arrays for directional signal transmission or reception
- 30 Quadrature amplitude modulation

DOWN

- 1 Multiple input, multiple output
- 2 The ratio of the maximum magnitude of a standing wave to the minimum magnitude (3 words)
- 4 ELINT (2 words)
- 7 Magnetic linkage between physically unconnected signal paths or devices (2 words)
- 8 The degree to which the impedance of a component differs from the transmission line or component to which it is connected

- 11 The bandwidth divided by the center frequency of the band, expressed as a percentage (2 words)
- 13 The use of electronic signals and systems to disrupt the function of an opponent's surveillance, defense or communications systems (2 words)
- 16 The frequency at which the inductive and capacitive reactances of a circuit are equal in magnitude (2 words)
- 17 The frequency interval from 2 to 4 GHz
- 19 A mapping of the complex impedance plane onto a polar plot (2 words)
- 20 The process by which some characteristic of a carrier wave is modified in accordance with an intelligence signal
- 21 The state of operation in which there is no interruption of the presence of a signal (2 words)
- 22 The ratio of the number of bits in a data transmission that are incorrectly received to the number of bits received (3 words)
- 23 A system of material boundaries that direct electromagnetic energy waves
- 25 A structure that is intended to radiate electromagnetic waves into or collect electromagnetic energy from space
- 27 Quadrature phase shift key modulation



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Crossword puzzle grid with filled-in words and numbered starting points. The grid is filled with words related to radar and antennas, such as 'ATTENUATION', 'ISOLATOR', 'DIPLEXER', 'SUBBAND', 'SIGNAL TO NOISE RATIO', 'INSERTION LOSS', 'RETURN LOSS', 'BEAMFORMING', 'AMPEDANCE', and 'GAIN'.

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