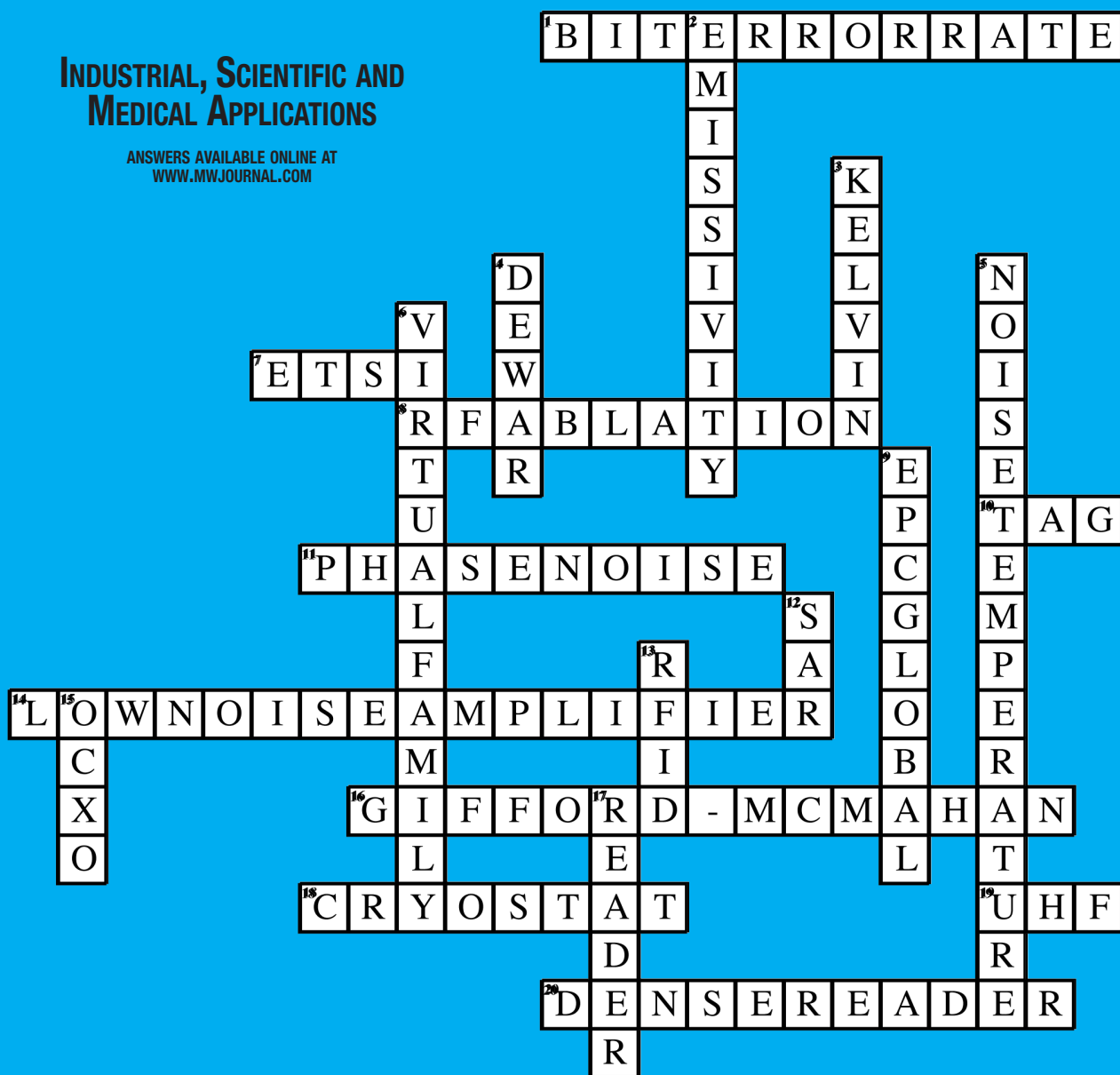


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## ACROSS

1 BER (3 words)

7 Seeks to produce the telecommunications standards that will be used throughout Europe

8 Medical treatment found to be most effective for destroying inoperable early stage cancer (2 words)

10 RFID transponder attached to an item

11 Frequency domain representation of rapid, short-term, random fluctuations in the phase of a wave, caused by time domain instabilities (2 words)

14 LNA (3 words)

16 Closed cycle helium refrigerators for cryogenic use use this cooling cycle

18 A vessel, similar in construction to a vacuum flask, used to maintain cold cryogenic temperatures

19 RFID frequency band covering 850 to 950 MHz

20 RFID reader mode of operation that prevents readers from interfering with one another when many are used in close proximity to one another (2 words)

## DOWN

2 The relative power of a materials surface to emit heat by radiation

3 Cryogenic temperatures are typically measured using this temperature scale

4 Vacuum-jacketed vessel used for the storage of liquid gases

5 Noise figure expressed in Kelvins typically used by radio astronomers (2 words)

6 Four full anatomical 3D surface models of a family used to investigate the effects of MRI fields on the body (2 words)

9 Organization leading the development standards for the Electronic Product Code to support RFID

12 Specific absorption rate

13 Radio frequency identification

15 Oven controlled crystal oscillator

17 RFID interrogator