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The total ms is then  $5 \times (+1/2) + (-1/2) = 2$ . (c) The five electrons with  $m_s = +1/2$  use up all of the

possible  $m_l$  values (+2, +1, 0, -1, -2), which sum to zero. The sixth electron has a maximum  $m_l$  of +2, so the maximum total  $m_l$  is +2. (d) The next available level for one of the 3d electrons is 4p. The remaining five 3d.

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The total  $m_s$  is then  $5 \times (+1/2) + (-1/2) = 2$ . (c) The five electrons with  $m_s = +1/2$  use up all of the possible  $m_l$  values (+2, +1, 0, -1, -2), which sum to zero. The sixth electron has a maximum  $m_l$  of +2, so the maximum. introduction-to-modern-astrophysics-solutions 2/2 Downloaded from happyhounds.pridesource.com on November 28, 2020 by guest. total  $m_l$  is +2.

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