

Problem Set 2 (due October 13, 2003). [100 points]

- 1. (5 points): Textbook Pb 2.2, page 141.**
- 2. (10 points):**
Compute the CRC for data bits (10011) corresponding to polynomial $s(D) = D^4 + D + 1$, using generator polynomial $g(D) = D^3 + D + 1$. Use two different techniques: the modular 2 polynomial division and the LFSR circuit.
- 3. (10 points): Textbook Pb 2.15, page 142.**
- 4. (10 points): Textbook Pb 2.16, page 142.**
- 5. (10 points): Textbook Pb 2.20, page 143.**
- 6. (10 points): Textbook Pb 2.23, page 143.**
- 7. (20 points): Textbook Pb 2.29, page 144.**
- 8. (5 points): Textbook Pb 2.31, page 145.**
- 9. (10 points): Textbook Pb 2.33, page 145.**
- 10. (10 points): Textbook Pb 2.37, page 146.**