Homework Ch. 7

2. Data conversion is changing one type of data to another, such as analog to digital and digital to analog.

4. Quantizing is the process of assigning a binary number to a value on an analog signal.

13. Flash converters are the fastest type of A/D converter. Flash converters work by using a linear voltage ladder with a comparator at each rung of the ladder to compare the input voltage to the reference voltages.

15. Serializer/deserializer (SERDES) devices perform serial to parallel and parallel to seral data conversion

16.A sample and hold (S/H) performs the sampling operation. It is important because it gets a consistent voltage during the sampling period.

21. Not in 7-1, 7-2 or 7-3.

23. Pipeline Converters are used to perform high speed conversions.

26. Sigma delta converters (ΣΔ) gives the best reolution.