

MANUAL J® IN A DAY

MARCH 31
8 AM - 4 PM

4307 Northern Pike
Monroeville, PA 15146

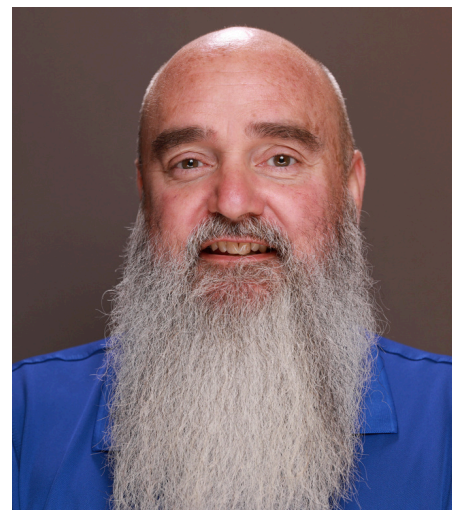
\$350 (early bird until March 17)
\$400 (after March 17)

Learn the fundamentals of residential heat loss and heat gain calculations using the nationally recognized residential load calculation standard.

Topics covered include:

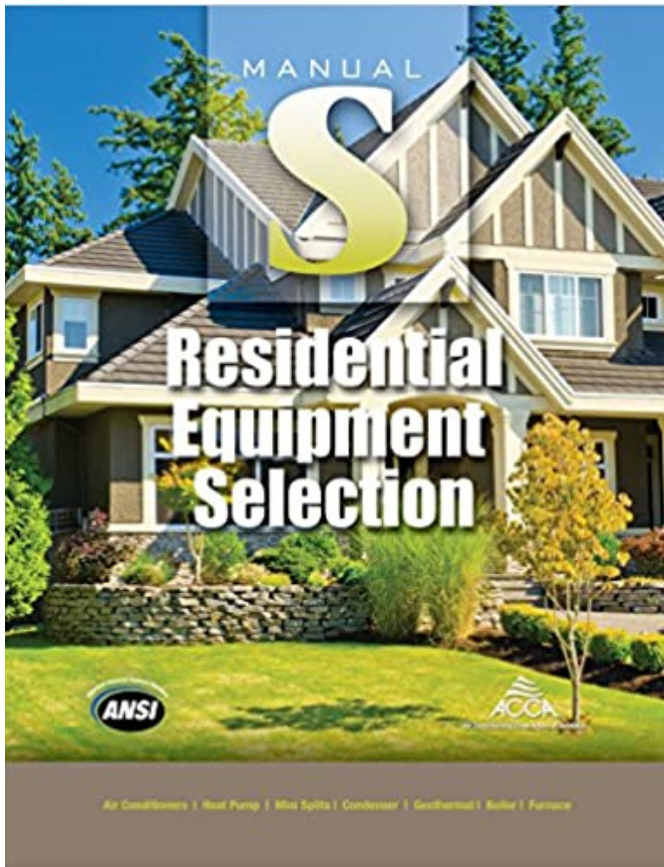
- Indoor design temperatures
- Outdoor design temperatures
- Heat transfer
- How to perform a proper survey
- Building components
- Insulation
- Infiltration
- Ventilation
- And more!

Register at
accaproducts.org/events



Instructor: Ed Janowiak





MANUAL S® IN A DAY

**APRIL 1
8 AM - 4 PM**

**4307 Northern Pike
Monroeville, PA 15146**

**\$350 (early bird until March 17)
\$400 (after March 17)**

Learn the fundamentals of residential equipment selection using the code-required nationally recognized standard.

Topics covered include:

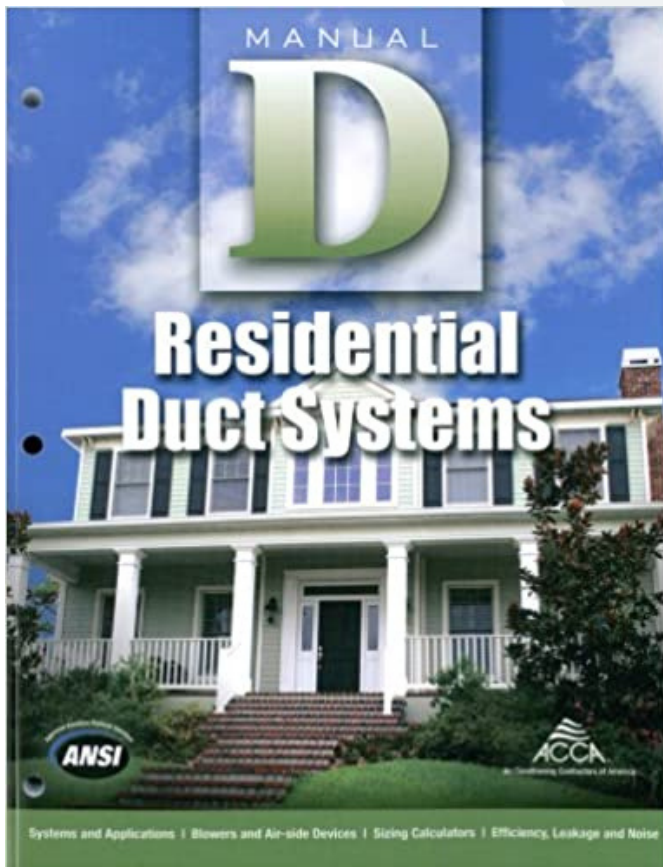
- Understanding sensible heat ratio
- Understanding air conditioning capacities
- How to select a cooling system or heat pump
- How to select a fuel-fired heating system
- Determining proper airflow
- Heating and cooling sizing limits
- And more!

**[Register at
acca.org/events](https://acca.org/events)**



Instructor: Ed Janowiak





MANUAL D® IN A DAY

APRIL 2
8 AM- 4 PM

4307 Northern Pike
Monroeville, PA 15146

\$350 (early bird until March 17)
\$400 (after March 17)

Learn the fundamentals of residential duct design based on the nationally recognized standard.

Topics covered include:

- Duct sketch
- Total effective length calculation (TEL)
- External static pressure
- Component losses (pressure drops)
- Available static pressure
- Friction rate
- Use of a duct slide
- And more!

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