EES windows for the EES file Sample_simple_set_of_simultaneous_equations.EES
J. M. Cimbala, August 2005

EES Equations Window

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"Simple simultaneous set of equations, solved using EES"
"J. M. Cimbala, August 2005"

"Type out the set of simultaneous equations to be solved:"

3*a + b - 2*c = 4
4*a - 3*b + 2*c = 0
2*a - 4*c = 5

"Note: At this point, click on Windows-Formatted Equations to see the equations in a
..cleaner-looking format. This feature is useful to double check that you typed in  your
..equations correctly."

"To solve, click on the toolbar icon that looks like a calculator, or Calculate-Solve."
"A Calculations Completed window will appear. Continue."
"A Solution window will appear with the answers."
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EES Formatted Equations

Simple simultaneous set of equations, solved using EES

J. M. Cimbala, August 2005

Type out the set of simultaneous equations to be solved:

$$3 \cdot a + b - 2 \cdot c = 4$$

$$4 \cdot a - 3 \cdot b + 2 \cdot c = 0$$

$$2 \cdot a - 4 \cdot c = 5$$

Note: At this point, click on Windows-Formatted Equations to see the equations in a cleaner-looking format. This feature is useful to double check that you typed in your equations correctly.

To solve, click on the toolbar icon that looks like a calculator, or Calculate-Solve.

A Calculations Completed window will appear. Continue.

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EES Solution

Main

Unit Settings: [kJ]/[K]/[kPa]/[kmol]/[degrees]

$a = 0.6364$ $b = 0.2273$ $c = -0.9318$

No unit problems were detected.

Calculation time = .0 sec