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portant chemical, biological, physical, safety, and mathe-matical data and concepts that are fundamental to the



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Mean  $n$  = number of data values max  
events A and B and C occurring in  
sequence  $x A q = 1 P(\sim A) =$  probability  
of event A Engineering Formula Sheet

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Binomial Probability (order doesn't matter)  $P_k$  (= binomial probability of  $k$  successes in  $n$  trials  $p$  = probability of a success

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Basic Thermodynamic Formulas (Exam

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Equation Sheet) Control Mass (no mass flow across system boundaries)

Conservation of mass:  $\dot{m} = \dot{m}_{in} - \dot{m}_{out}$ .

Conservation of energy (1st Law):  $\dot{Q} - \dot{W} =$

$\Delta \dot{E} = \Delta \dot{E}_{int} + \Delta \dot{E}_{KE} + \Delta \dot{E}_{PE} = \dot{m} \Delta \dot{E}_{int} + \dot{m} \Delta \dot{E}_{KE} + \dot{m} \Delta \dot{E}_{PE}$ . 1  
2. 2.

## Basic Thermodynamic Formulas (Exam Equation Sheet)

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engineering, were engaged in the new field of electric propulsion. They



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experienced practical annoyances with the mingling of units from mechanical engineering, electrical engineering and physics. That situation motivated Dr. Roschke to assemble this material. Although I have carefully checked the values given here, it is quite possible that some

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