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energy and its transformation based on the physical state of the matter. The analysis of thermal activities is derived by means of energy conservation equations, which are based on the

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conservation of mass or the conservation of energy.

Thermodynamic principles mainly depend either on the law of conservation of energy or the law of conservation of mass.

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everywhere directly or
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for students of mechanical engineering. We will study the terms and concepts used in thermodynamics, with precise definitions. The three laws of thermodynamics (zeroth, first, and second) will be explored in detail,

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and the properties of
materials will be studied.

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interest emphasizes the

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designs with less
environmental pollution and
impact.

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ADRIAN BEJAN is the J.A. Jones Distinguished Professor of Mechanical Engineering at Duke University, and an internationally-recognized authority on thermodynamics. The father of the field of

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systems, including
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efficient conversion of

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Ernst G. Eckert in Minnesota
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Mechanical Engineering -
Manhattan College
Lamyaa El-Gabry (second from
left), a lecturer in
mechanical and aerospace
engineering, teaches the

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department's introductory thermodynamics course. This fall, students toured the Public Service Enterprise Group (PSEG) generating station in Sewaren, New Jersey, with PSEG engineer Christian Santoro (far

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