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Mechanical and Electrical Systems in Buildings illuminates the modern realities of planning and constructing buildings with efficient, sustainable mechanical and electrical systems. This complete guide serves as a text and a reference for students and professionals interested in an interactive, multidisciplinary approach to the building process, which is necessary for sustainable design.

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It is possible to make electrical and mechanical systems using analogs. An analogous electrical and mechanical system will have differential equations of the same form. There are two analogs that are used to go between electrical and mechanical systems. The analogous quantities are given below.

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Mechanical system, Any building service using machines. They include plumbing , elevators , escalators , and heating and air-conditioning systems. The introduction of mechanization in buildings in the early 20th century brought about major adjustments; the new equipment demanded floor space, and the design team began to include electrical and HVAC (heating, ventilating , and air-conditioning) engineers.

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## Electromechanics - Wikipedia

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## Mechanical–electrical analogies - Wikipedia

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## How Electro Mechanical Systems Work | EM Technician

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## Mechanical–Electrical Systems

Electrical systems and mechanical systems are two physically different systems. There are two types of electrical analogies of translational mechanical systems. Those are force voltage analogy and force current analogy.

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## MECHANICAL AND ELECTRICAL SYSTEM ANALOGIES - GeeksGod

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Definition: Electrical and mechanical systems possess fixed analogy and there exist similarity between the equilibrium equations of the two. This allows forming such electrical systems whose behavioural characteristics are similar to the given mechanical system. Such systems are known as analogous systems.

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Analogous Systems (Force-Voltage Analogy and Force-Current ...

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Mechatronics: Electronic control systems in mechanical and ...

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