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Analogous

Electrical And

**Analogous**

**Electrical**

**And**

**Systems Erik**

**Cheever**

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**Analogous Electrical**

**And Mechanical**

**Systems**

An analogous electrical

and mechanical system

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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. Key Concept: Analogous Quantities

## **Electrical Mechanical Analog - Erik Cheever**

Two systems are said to be analogous to

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each other if the following two conditions are satisfied. 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.

**Electrical Analogies**

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**of Mechanical**

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**Tutorialspoint**

Mechanical-electrical analogies are used to represent the function of a mechanical system as an equivalent electrical system by drawing analogies between mechanical and electrical parameters. A mechanical system by itself can be so represented, but analogies are of

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greatest use in  
electromechanical  
systems where there is  
a connection between  
mechanical and  
electrical parts.

## **Mechanical-electrical analogies - Wikipedia**

Analogous Systems

Definition: Electrical  
and mechanical

systems possess fixed  
analogy and there exist  
similarity between the  
equilibrium equations

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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.

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

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What are Electrical Analogies of Mechanical Systems?  
When two systems are said to be analogous if they satisfy the following two conditions. The two systems are physically different; Differential

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equation modeling of these two systems are same; While, Electrical systems and mechanical systems are two different systems.

## **Electrical Analogies of Mechanical Systems in Control**

...

A NEW ANALOGY  
BETWEEN MECHANICAL  
AND ELECTRICAL  
SYSTEMS :By F. A.

Friv•s•o• University of

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Michigan By  
considering each mass  
in a linear mechanical  
system as having two  
terminals, one fixed in  
the mass and one fixed  
to the frame of  
reference, every linear  
mechanical system is  
reduced to a  
multiplicity of closed  
mechanical circuits to  
which force and  
velocity relations  
similar to Kirchhoff's  
laws, may be applied.

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## **Mechanical and circuit analogs - YouTube**

Direct Analogy

Conventionally, the

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"direct" analogy consists in associating the mechanical speed of a mass, with the electrical current (which can be considered as the volume velocity of electrical charges through a conductor).

## **Section 2.2 : Electro-mechanical analogies**

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Probably the first analogy that comes to mind between electrical and mechanical systems is that current is kind of like velocity—both are motion of some kind. And voltage is kind of like force—what pushes the current

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through a resistor. This intuitive analogy is worked out in detail on the right side of the table.

## **Engs 22 — Systems SYSTEM ANALOGIES**

Electrical And  
Mechanical Systems,  
Inc. is a New York  
Domestic Business  
Corporation filed on  
January 27, 1978. The  
company's filing status  
is listed as Inactive -  
Dissolution By

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Proclamation /

Annulmen and its File

Number is 469162. The

Registered Agent on

file for this company is

Louis J Pett and is

located at 3042

Waverly Ave,

Oceanside, NY 11572.

**Electrical And  
Mechanical Systems,  
Inc. in Oceanside,  
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Mechanical  
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## **Modeling Engineered Systems - 22 Mechanical and Electrical ...**

The mechanical analogy of electrical resistance is the loss of energy of a moving system through such processes as friction. A mechanical component analogous to a resistor is a shock absorber

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and the property analogous to

resistance is damping.

A resistor is governed

by the constitutive equation of Ohm's law,

## **Impedance analogy - Wikipedia**

Analogous system:

Obtain the electrical

analogous of the

following mechanical

system using "force-

voltage analogy."

Assume  $x_1$  and  $x_2$  are

displacement from the



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equilibrium point of the systems, meaning the system is at rest due to gravity and no need to consider the effect of gravity.

**Solved: Analogous System: Obtain The Electrical Analogous**

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As an electrical contracting company, New York Mechanical Electrical Company, LLC ("NYMEC") offers its clients a number of

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unique benefits that most other electrical contractors cannot. 1.

Self-Performance

Capabilities: Our alliance with BD

Development allows us to self-perform many aspects of a project that most other firms need to ...

**NYMEC | New York  
Mechanical Electrical  
Company LLC**

Electrical Advisory

Board plan

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examination.

Submitted by a  
Licensed Electrician  
when electrical  
equipment or  
installation is at least  
1000 KVA. (1 RCNY §  
34-05 ) Energy  
Conservation Code  
compliance.

Demonstrates Lighting  
Power Density energy  
Code compliance. ECC  
section C406.3, and  
Table C405.5.2(2) for  
these requirements.

Fire Alarm System.

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**Buildings - Project  
Requirements for  
Owner - Mechanical  
System**

Electrical engineers deal with the manufacture of electrical equipment, communication systems, and navigation systems, in addition to designing electrical systems in vehicles. Mechanical...

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