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Sand casting, also known as sand molded casting, is a metal casting process characterized by using sand as the mold material. The term "sand casting" can also refer to an object produced via the sand casting process. Sand castings are produced in specialized factories called foundries. Over 60% of all metal castings are produced via sand casting process.

Sand casting - Wikipedia

Thermal Engineering Students Association - Sardar Patel College of Engineering . Thermal Engineering Students Association (TESA-SPCE), an academic forum of students of Mechanical Engineering Department, SPCE, was incepted on 30/10/2017 at SPCE Seminar Hall.

Sardar Patel College of Engineering

Damping is an influence within or upon an oscillatory system that has the effect of reducing, restricting or preventing its oscillations. In physical systems, damping is produced by processes that dissipate the energy stored in the oscillation. Examples include viscous drag in mechanical systems, resistance in electronic oscillators, and absorption and scattering of light in optical oscillators.

Damping ratio - Wikipedia

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Abstract: Diagrid structural typology has its origin at the crossroads of architecture and engineering and has proved to be extremely compliant in structuring broad range of building forms and spans. The early applications of diagrid systems have not focused on exploring its potentials so much, hence a need for this issue is thus created.

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where $s(t)$ denotes the signal, T is the averaging period and N is the number of samples for averaging. Details on TSA will not be discussed in this paper. References on details about TSA can be found in the references of [1]. A brief review of TSA was given by Dalpiaz et al. and some drawbacks of TSA were pointed out by Miller [2]. More advanced approaches of time-domain analysis apply time series ...

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where R_0 and $R(\hat{\mu})$ are the initial electrical resistance and the electrical resistance in the presence of a strain, respectively. Based on the effect of the strain on the graphene electrical properties, different strain sensors have been manufactured and reported [1]. According to the theoretical studies, at least 23% of the strain is necessary to create an energy gap in graphene [2].

Graphene based strain sensors: A comparative study on

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