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Mathematical Equations in Predicting Physical Behavior

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Editor's Note

Applied mathematics is a combination of mathematical science and a specialized subject of knowledge. Applied mathematics is a branch of mathematical science that deals with the mathematical methods, which are used in the fields of science, business, engineering, computer science etc. Computational mathematics is a branch of applied mathematics that deals with the mathematical research, especially in areas of science where computing plays an essential role such as algorithms, symbolic computations and numerical methods. Journal of Applied & Computational Mathematics is an open access international peer reviewed scholarly journal that publishes scientific articles related to all the diversified fields in applied mathematics. The current Volume 5 Issue 4 of the journal had published five research articles.

Ahmed et al., in their research article presented a standard Galerk infinite element method to study the incompressible non–Newtonian fluid flow in a converging–diverging nozzle and studied the liquid velocity and shear stress profiles. Authors during their study observed that the pressure loss and mass flow rate effects are significant in diverging part of nozzle for non–Newtonian fluid flow [1].

Abd et al. in their research article studied the conditions that an infinite matrix has to satisfy to define a linear bounded operator with a weight sequence ß={ßi}. Author had successfully proved the hypothesis with their theorem [2]. Mishra et al.'s research article generalized the semi normed difference of triple gai sequence spaces with the help of Orlicz function. Authors studied the varied properties and obtained inclusion relations between the semi normed difference and triple gai sequence spaces [3].

Salmani et al. in their research article used a mathematical pattern for describing the ecosystem of the emotions, redefining the interactions for recognition, human emotion communications and perception on environment [4]. Selvarani et al. and Rezaee in their research articles described about the convective hydromagnetic flow past a vertical porous plate and control of road traffic, respectively [5,6].

References

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