

# Chaos and Fractals in Mechanical Engineering

**Mohammad Sajid**

*College of Engineering, Qassim University, Saudi Arabia  
E-mail: msajid@qec.edu.sa*

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**Abstract**—*The tremendous growth can be seen in the research work in mechanical engineering in the last many years and there are several scopes of research in mechanical engineering. Recent advancements in complexity of mechanical systems have led to the applications of chaos theory and fractals. In this presentation, some recent developments on chaos and fractals in mechanical engineering are explored. The aim is to bring together researchers from various interests of mechanical systems, demonstrating them to chaos theory and fractals. This demonstration shows researchers from the discipline of mechanical engineering to find opportunity of cross disciplinary research, which may ultimately lead to novel solutions and understanding of complex situations of mechanical systems.*