

Fractals and Chaos in Mathematical Sciences

Mohammad Sajid

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

Abstract—*The purpose of this demonstration is to explore fractals and chaos in mathematical sciences which is followed by overview of these. Fractals and chaos are developed in the new way that influences the world around us, and consequently also influences our ways of approaching, analyzing and solving problems. Recently, it is observed that fractals and chaotic behavior came into existence in several branches of mathematical sciences. For development and modernization of science and technology, it is necessary to include fractals and chaos theory in the fundamental research as well as its applications. Our main goal is to show some advancements in mathematical sciences which brings attention of researchers toward fractals and chaos in different disciplines of their researches whose work associated to any field of mathematical sciences.*

Keywords: *Fractals, chaos, fixed points, dynamical systems.*