

On the time periodic solutions and the asymptotic stabilities
of GFDs and the related equations

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Abstract: In this lecture, we shall introduce time periodic solutions of differential equations arising from different occasions. We then turn our attention to the GFDs and viscous Burgers' type equations and study the asymptotic stabilities of the solutions. In particular, two different approaches will be introduced to prove the existence of time periodic solutions of GFDs with time periodic forcings.