Polar Plot It is a graphical representation of The frequency response of a hystem. It displays the magnitude and phase of the bystem's transfer function as a function of frequency. fregneny response G How system sesponds to different frequencies transfer function

Grantenalical representation that describes the relationship by we the input and output g the system in the frequency domain.

Frequency domain (jw)

Laplace domain (T+jw)

Differential egnation 7 Time Domaio Dere egnations are generated to describe the behaviour of dynamic systems such as mechanical systems electrical dets-. There equations typically represents how system : variables such as position, velocity, displacement, voltage, current, temperadue and pressure change over time in response to the input at disturbence. elg! (1) In Simple Mechanical System like a "Mars - Spring - Damper" System, Newton's I law yields a second order Ardinary diffusible equation (ODE) that describes the motion of the mass. (2) In Electrical System, circuit Containing Remotors, Capacitos inductors, and. Kirchof 's law yelf differentes semations governing the voltage and current relationships in The civarit. (Graphical explanation)