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## **Linear system - Wikipedia**

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free respectively forced systems, the exponential stability respectively BIBS (bounded-input bounded-state) stability. Additionally the connection of these stability concepts with the so-called Bohl exponent is in focus of this work.

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In particular, a differential equation is linear if it is linear in terms of the unknown function and its derivatives, even if nonlinear in terms of the other variables appearing in it. As nonlinear dynamical equations are difficult to solve, nonlinear systems are commonly approximated by linear equations (linearization).

## **Nonlinear system - Wikipedia**

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A system can be defined as a set or arrangement of things related in such a way as to form a whole. Linear system analysis is concerned with the study of equilibrium and change in dynamical systems, that is, in systems that contain variables that may change with time.



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linear functions; results about linear operators which are needed in these notes will be quoted as needed. 2 Banach Spaces Let  $E$  be a real (or complex) vector space which is equipped with a norm  $\| \cdot \|$ , i.e. a function  $\| \cdot \| : E \rightarrow \mathbb{R}^+$  having the properties: i)  $\| u \| \geq 0$ , for every  $u \in E$ , ii)  $\| u \| = 0$  is equivalent to  $u = 0 \in E$ ,

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