

Asymptotic Methods

By Chun Yin Leung

What are asymptotic methods

- Asymptotic method is an analysis method used to provide approximations to differential equations that cannot easily be solved explicitly.
- These methods are usually used to solve differential equations with a very small or a very large parameter in them. When getting rid of the parameters is not an option, for example, these small or large parameters may contain important information about the behavior of the equation that we are looking for, then we can use these methods to get some useful approximations to them.

Notation

- To study this subject, I must first introduce two notations \sim and O .
- If for two functions $f()$ and $g()$, $f()/g()$ tends to unity, we can write

Asymptotic Methods In The Theory Of Line

Michiel Hazewinkel



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