

### **introduction to infinitesimal analysis pdf**

Synthetic differential geometry or smooth infinitesimal analysis have roots in category theory. This approach departs from the classical logic used in conventional mathematics by denying the general applicability of the law of excluded middle – i.e., not  $(a \neq b)$  does not have to mean  $a = b$ . A nilsquare or nilpotent infinitesimal can then be defined. This is a number  $x$  where  $x^2 = 0$  is true ...

### **Infinitesimal - Wikipedia**

Introduction. A non-zero element of an ordered field is infinitesimal if and only if its absolute value is smaller than any element of the form  $\frac{1}{n}$ , for a standard natural number. Ordered fields that have infinitesimal elements are also called non-Archimedean. More generally, non-standard analysis is any form of mathematics that relies on non-standard models and the transfer principle.

### **Non-standard analysis - Wikipedia**

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