

## **On the modeling of biological growth**

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### Abstract

The theme of this presentation is that contemporary methods of modeling biological growth are not yet sufficiently general to adequately model the varied phenomena involved in the growth process. Illustrations of various growth processes and the effects of mechanical loading on those processes will be presented. A strong limitation on the development of mathematical models for growth has been the assumption of growth as a bijective mapping. In this presentation the ratio of equations to illustrations will be small; the objective of the presentation is not to present new results, but rather to indicate a future direction of research in this area of growth modeling.