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Modeling of Anaerobic Digestion.

Anaerobic digestion, i.e., the decomposition of organic matter in the absence of oxygen, is utilized on an industrial scale to decompose waste material and generate green energy. Anaerobic digestion is a complex multi-stage process involving many different types of micro-organisms. A number of mathematical models has been developed to describe, better understand and optimize this process. In this talk I'll give an overview over these models and discuss the insights gained through these modeling efforts. (Received September 14, 2019)