

# 3 Methodik der mathematischen Modellierung

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Im zweiten Kapitel haben wir ein ausführliches Modellierungsbeispiel behandelt. In diesem Kapitel soll jetzt der Prozess der mathematischen Modellierung im Allgemeinen detaillierter diskutiert werden. Unser Ziel ist es, einen roten Faden zu legen, dem man beim Modellieren unterschiedlicher Systeme und Phänomene folgen kann.

Aus der Software-Entwicklung kennt man so genannte *Vorgehensmodelle*, die eine Reihe von abzuarbeitenden Schritten – so genannte Aktivitäten – festgelegt, an deren Ende jeweils ein zu lieferndes Ergebnis steht. Obwohl es aufgrund der Vielfalt der Anwendungsprobleme nicht möglich ist, den Vorgang der mathematischen Modellierung streng zu algorithmisieren, lässt sich doch auch die mathematische Modellierung in eine mehr oder weniger feste Reihenfolge von Einzelschritten (Aktivitäten) mit dazugehörigen Ergebnissen zerlegen. Eine sequenzielle Abarbeitung dieser Einzelschritte, wie sie im Folgenden präsentiert wird – und wie wir sie auch bei der Modellierung des Freiwurfs im vorigen Kapitel dargestellt haben – ist dabei nicht zu wörtlich zu verstehen. Wie wir sehen werden, hängen die einzelnen Schritte oft stark von einander ab, sodass man in der Realität mehrere dieser Modellierungsschritte gleichzeitig bearbeiten wird. Es sei noch einmal betont, dass die mathematische Modellierung letztlich ein kreativer Prozess ist,



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