

## Übung 1: Semester 1 - Vorkurs - Physik (Zusammenfassung)

### 1. Mechanik - Kinematik

Die Kinematik beschreibt die Bewegung von Körpern ohne die Ursachen (Kräfte) zu betrachten. Sie umfasst die Beschreibung der Position, Geschwindigkeit und Beschleunigung eines Körpers über die Zeit.

#### 1.1. Position und Weg

Die Position eines Körpers wird durch seinen Ortsvektor  $\vec{r}$  beschrieben, der vom Ursprung des Koordinatensystems zum Körper zeigt.

#### 1.2. Geschwindigkeit

Die Geschwindigkeit  $\vec{v}$  ist die zeitliche Änderung der Position:

$$\vec{v} = \frac{d\vec{r}}{dt}$$

Die Geschwindigkeit ist ein Vektor, der die Richtung und den Betrag der Bewegung angibt. Der Betrag der Geschwindigkeit ist die skalare Geschwindigkeit  $v$ .

#### 1.3. Beschleunigung

Die Beschleunigung  $\vec{a}$  ist die zeitliche Änderung der Geschwindigkeit:

$$\vec{a} = \frac{d\vec{v}}{dt}$$

### 2. Mechanik - Dynamik (Newton'sche Gesetze)

#### 2.1. Newton'sches Erstes Gesetz

Ein Körper bleibt in Ruhe oder bewegt sich mit konstanter Geschwindigkeit fort, wenn keine resultierende Kraft auf ihn wirkt.

#### 2.2. Newton'sches Zweites Gesetz

Die resultierende Kraft  $\vec{F}$  auf einen Körper ist gleich dem Produkt aus seiner Masse  $m$  und seiner Beschleunigung  $\vec{a}$ :

$$\vec{F} = m \cdot \vec{a}$$

#### 2.3. Newton'sches Drittes Gesetz

Wenn Körper A auf Körper B eine Kraft  $\vec{F}_{AB}$  ausübt, übt Körper B auf Körper A eine gleich große, aber entgegengesetzte Kraft  $\vec{F}_{BA}$  aus:

$$\vec{F}_{AB} = -\vec{F}_{BA}$$

Die Kräfte wirken entlang der Verbindungslinie der Körper.

#### 2.4. Gravitationsgesetz

Die Gravitationskraft  $F_G$  zwischen zwei Massen  $m_1$  und  $m_2$  im Abstand  $r$  ist gegeben durch:

$$F_G = G \cdot \frac{m_1 \cdot m_2}{r^2}$$

#### 2.5. Federkraft (Hooke'sches Gesetz)

Die Federkraft  $F_F$  ist proportional zur Auslenkung  $x$  aus der Ruhelage:

$$F_F = -k \cdot x$$

Das Minuszeichen zeigt, dass die Kraft der Auslenkung entgegenwirkt.



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**Minjie Lin**





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