

## **3. Point Defects and Diffusion**

### **3.1 Diffusion Primer**

#### **3.1.1 Diffusion and Point Defects**

#### **3.1.2 Recapitulation of Ficks Laws and Random Walk**

#### **3.1.3 Coupling Phenomenological Laws to Single Atomic Jumps**

#### **3.1.2 Essentials to Chapter 3.1: Diffusion Primer**

### **3.2 Diffusion Mechanism**

#### **3.2.1 Atomic Mechanisms**

#### **3.2.2 Self-Diffusion**

#### **3.2.3 Diffusion of Impurity Atoms**

#### **3.2.4 Essentials to Chapter 3.2 Diffusion Mechanisms**

### **3.3 Experimental Approaches to Diffusion Phenomena**

#### **3.3.1 Determination of Diffusion Profiles**

#### **3.3.2 Essentials to Chapter 3.3 Experimental Approaches to Diffusion Phenomena**