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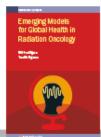
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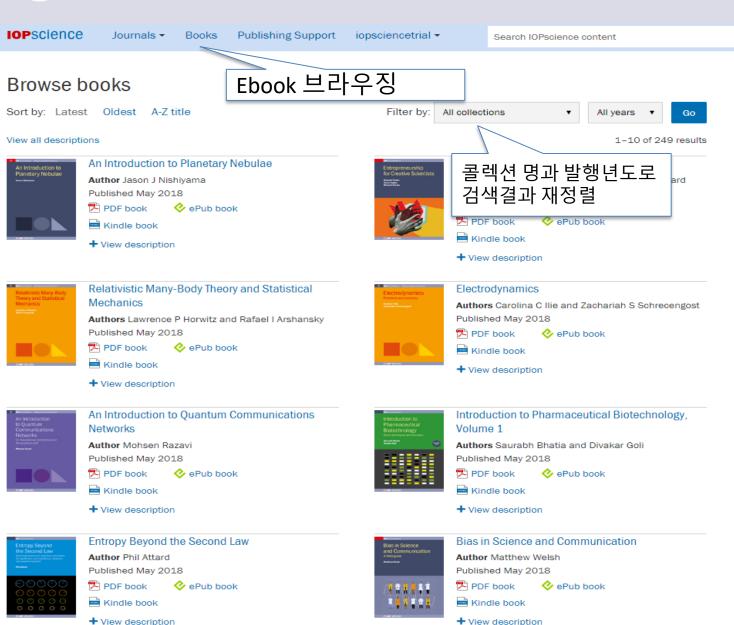




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Author Carlos I Calle

Published

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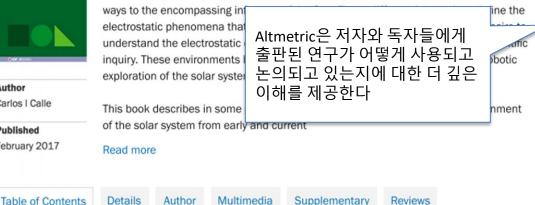
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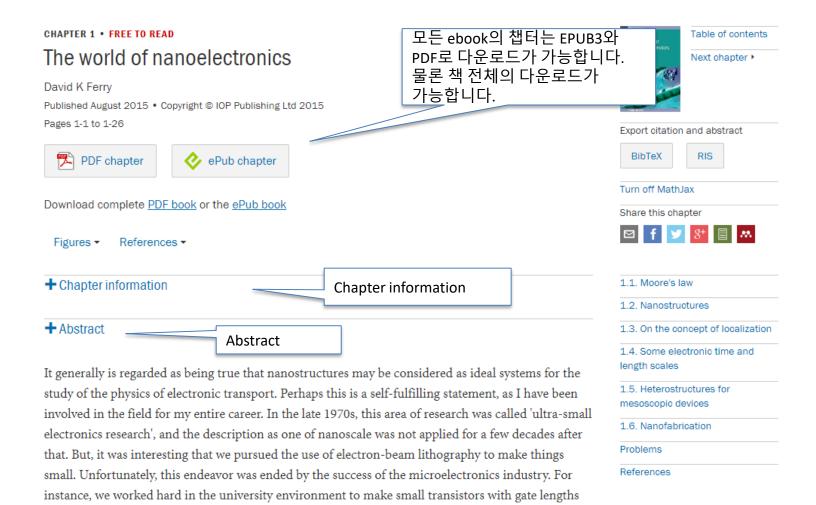
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processing that has given us this high technology life. This is nicely illustrated by Professor Jesper Nygård in the video of figure 1.1. Several research technologies are discussed in this video, and we will treat many of them in the following chapters of this book.



**Figure 1.1.** Jesper Nygård on nanotechnology, artificial atoms, and the future of computing. (Video hosted by Professor <u>Jesper Nygård</u>, Neils Bohr Institute, and produced by the Compound for Neils Bohr Institute, included <u>here</u> with their permission.)

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1.1. Moore's law
 1.2. Nanostructures
 1.3. On the concept of localization
 1.4. Some electronic time and length scales
 1.5. Heterostructures for mesoscopic devices
 1.6. Nanofabrication

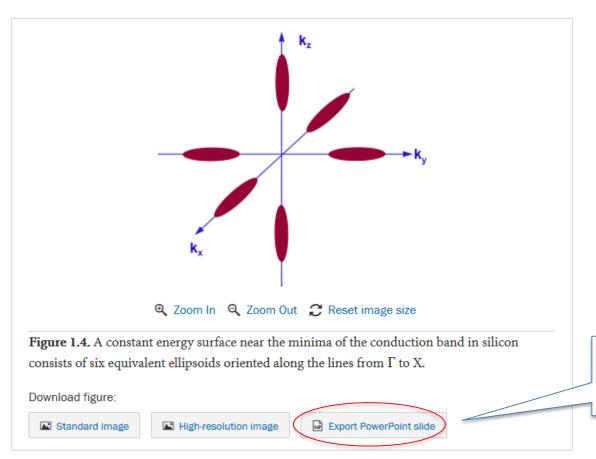
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self-consistent manner. Before addressing this, let us talk about the phrase 'transverse mass'. Silicon has a complicated band structure. The minimum of the conduction band lies along the line from  $\Gamma$  to X in the Brillouin zone, and is located about 85% of the way to X. Because of the symmetry of the Brillouin zone, there are six equivalent minima, as shown in figure 1.4. Each of the six ellipsoids has a longitudinal axis and two transverse axes, and corresponding values for the mass. In Si, it is generally felt that the effective mass values are  $m_L = 0.91m_0$ ,  $m_T = 0.19m_0$ .



- 1.1. Moore's law
- 1.2. Nanostructures
- 1.3. On the concept of localization
- 1.4. Some electronic time and length scales
- 1.5. Heterostructures for mesoscopic devices
- 1.6. Nanofabrication

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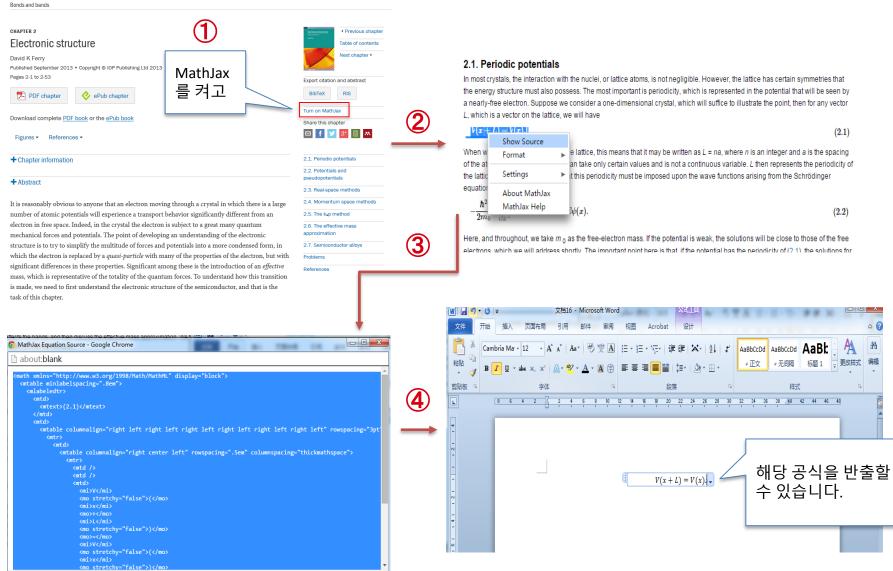
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