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semiconductors have many applications in modern electronics we describe some basic semiconductor devices in this section a great advantage of using semiconductors for circuit elements is the fact that many thousands or millions of semiconductor devices can be combined on the same tiny piece of silicon and connected by conducting paths

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germanium and gallium arsenide as well as organic semiconductors for its function its conductivity lies between conductors and insulators

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semiconductor device electronic circuit component made from a material that is neither a good conductor nor a good insulator hence semiconductor such devices have found wide applications because of their compactness reliability and low cost

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semiconductor technology has been a driver of the computing information technology mobile device and related industries the transistor a device that can amplify or switch electrical signals is the key component

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neamen s semiconductor physics and devices 3rd ed deals with the electrical properties and characteristics of semiconductor materials  
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mexico where he specialized in teaching semiconductor physics and devices courses and electronic circuits courses he is still a part time  
instructor in the department in 1980 professor neamen received the outstanding teacher award for the university of new mexico in 1983  
and 1985 he was recognized as outstanding

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