

EXHIBIT B

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semiconductor

[sem-ee-kuh n-duhk-ter, sem-ahy-] [SHOW IPA](#)

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noun

- 1 a substance, as silicon or germanium, with electrical conductivity intermediate between that of an insulator and a **conductor**: a basic component of various kinds of electronic circuit element (**semiconductor device**) used in communications, control, and detection technology and in computers.
- 2 a semiconductor device.

NEARBY WORDS

[semicivilized](#), [semiclassical](#), [semicolon](#), [semicoma](#), [semiconducting](#), **semiconductor**, [semiconductor diode](#), [semiconductor laser](#), [semiconscious](#), [semiconservative replication](#), [semicrystalline](#)

ORIGIN OF SEMICONDUCTOR

First recorded in 1875–80; [semi-](#) + [conductor](#)

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EXAMPLES FROM THE WEB FOR SEMICONDUCTOR

Likewise, the *semiconductor* industry as we know it today originated in the highly taxed 1970s, not the 1980s.

DAVID'S BOOK CLUB: UNINTENDED CONSEQUENCES | DAVID FRUM | JULY 3, 2012 | DAILY BEAST

Take Intel, which has been the leading maker of *semiconductor* chips for decades.

WHAT MARKET PANIC? HALCYON DAYS FOR SILICON VALLEY | ZACHARY KARABELL | MARCH 7, 2012 | DAILY BEAST

It may not be the only impurity causing the peculiar behavior of this *semiconductor*, but it does seem a likely candidate.

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adjective | [awr-gyuh-luhs, -guh-]

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BRITISH DICTIONARY DEFINITIONS FOR SEMICONDUCTOR

semiconductor / (ˌsemɪkənˈdʌktə) /

noun

- 1 a substance, such as germanium or silicon, that has an electrical conductivity that increases with temperature and is intermediate between that of a metal and an insulator, The behaviour may be exhibited by the pure substance (**intrinsic semiconductor**) or as a result of impurities (**extrinsic semiconductor**)
- 2 a a device, such as a transistor or integrated circuit, that depends on the properties of such a substance
 - b (*as modifier*): a *semiconductor diode*

DERIVED FORMS

semiconduction, noun

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WORD ORIGIN AND HISTORY FOR SEMICONDUCTOR

semiconductor

n.

1838, "material whose electrical conductivity is between that of a conductor and that of an insulator," from **semi-** + **conductor**. Modern very specific sense is recorded from 1931.

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SCIENCE DEFINITIONS FOR SEMICONDUCTOR

semiconductor [sém'ē-kən-dŭk'tər]

Any of various solid substances, such as silicon or germanium, that conduct electricity more easily than insulators but less easily than conductors. In semiconductors, thermal energy is enough to cause a small number of electrons to escape from the valence bonds between the atoms (the **valence band**); they orbit instead in the higher-energy **conduction band**, in which they are relatively free. The resulting gaps in the valence band are called **holes**.

Semiconductors are vital to the design of electronic components and circuitry, including transistors, laser diodes, and memory and computer processing circuits.

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CULTURE DEFINITIONS FOR SEMICONDUCTOR

semiconductor

A material that conducts (see [conduction](#)) [electricity](#), but very poorly. Silicon is the most common and familiar semiconductor. Devices made from semiconductors, such as the [transistor](#), are the basis of the modern microelectric industry.

THE NEW DICTIONARY OF CULTURAL LITERACY, THIRD EDITION

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