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Jack S. Kilby ( “ for his part in the invention of the integrated circuit ” ).

## Fundamentals of Semiconductors: Physics and Materials ...

1 Semiconductor Fundamentals 1.0

Chapter Learning Objectives After completing this chapter, you should

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be able to:

- Define the term semiconductor.
- Describe the differences between conductors, semiconductors and insulators in terms of atomic energy levels.
- Describe the atomic structure of monocrystalline silicon.

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A special semiconductor device  
fabricated with this material requires

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that the hole concentration be no greater than  $5.08 \times 10^{15} \text{ cm}^{-3}$  at  $T = 350 \text{ K}$ . What is the minimum bandgap energy required in this new material?

4.62 Silicon atoms, at a concentration of  $7 \times 10^{15} \text{ cm}^{-3}$ , are added to gallium arsenide.

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