

Use with Chapter 30  
Section 30.3

# Structure of an Evolved Star

1. According to the diagram, what is the first element that is converted in a star's core? What is it converted to? What is this process called?

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2. What is different about a massive star's lifetime during the hydrogen fusing phase? Where is this star on the H-R diagram?

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3. According to the diagram, what happens in the core of a massive star? How does this process in a massive star differ from that in a star the size of the Sun?

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4. According to the diagram, what are the last two elements that a massive star produces? Why is this the last reaction?

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5. What happens to stars that are 8 times the Sun's mass?

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6. What may happen to a star that is 8 to 20 times the mass of the Sun? What is the last stage of evolution for the most massive stars?

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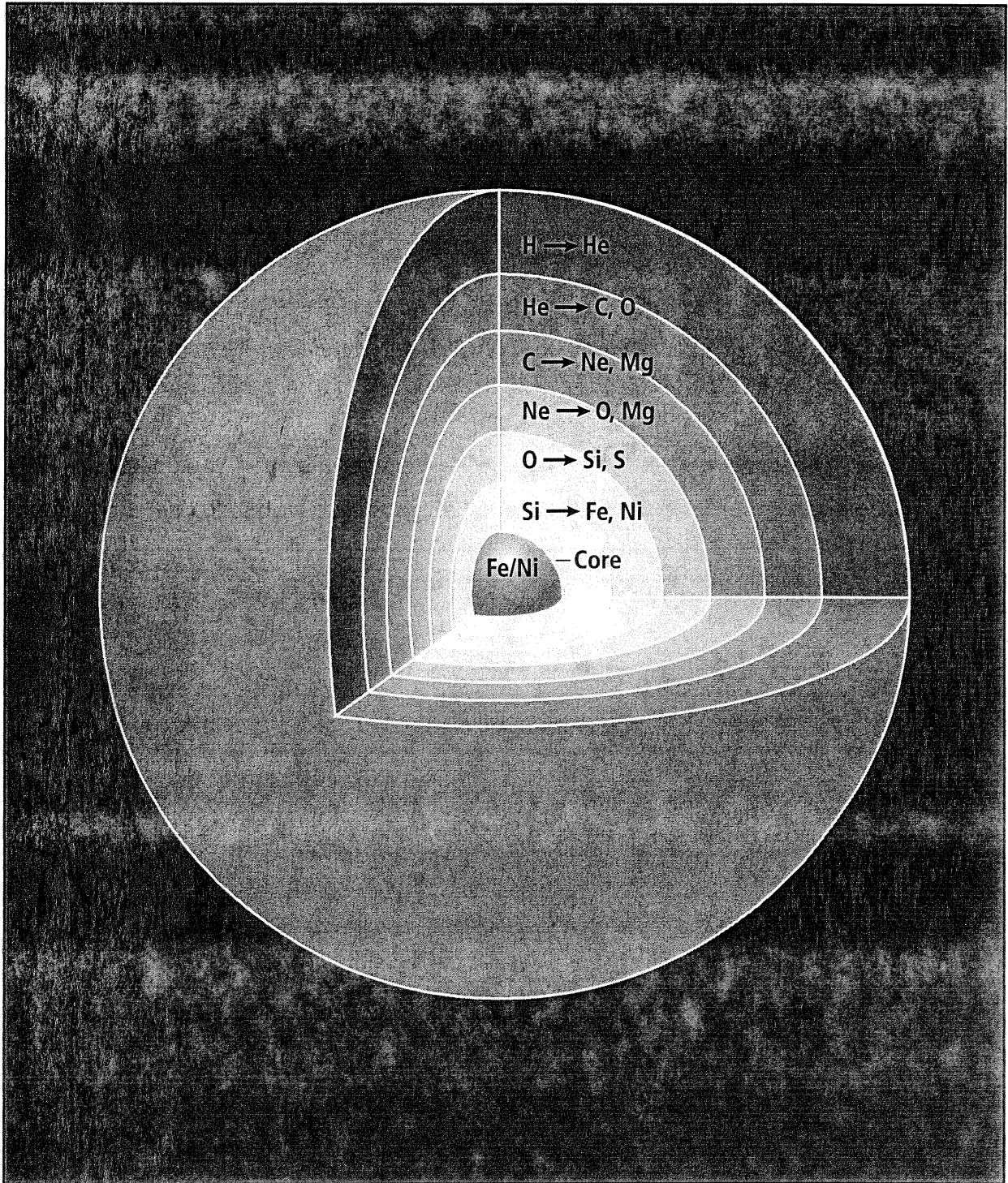
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