

图书基本信息

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内容概要

21世纪的社会是一个更加开放的社会，只有具备多种语言能力的人才能更好地立足于这个社会；21世纪的社会是一个更加科学的社会，只有具备一定科学素养的人才能更好地生存于这个社会。

对于每个人来说，其生存和发展都无法离开语言和科学。

如何将两者有机地融合在一起，是需要我们不断研究和探讨的课题。

本套丛书尝试从高中学生的实际英语语言水平出发，找寻有关高中自然科学课程与学生熟知的科学常识的结合点，用英语作为一种语言载体，让学生在阅读、理解、练习的过程中掌握自然科学知识，提高英语语言能力。

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章节摘录

2. Microwaves Microwaves, short, high-frequency radio waves lying roughly between very-high-frequency waves and conventional radio waves. Microwaves thus range in length from about 1 mm to 30 cm. They are generated in special electron tubes. Microwaves have many applications: in radio and television, radar, meteorology, satellite communications, distance measuring, and research into the properties of matter. Microwave ovens operate by agitating the water molecules in the food, causing them to vibrate, which produces heat. The microwaves enter through openings in the top of the cooking cavity, where a stirrer scatters them evenly throughout the oven. They are unable to enter a metal container to heat food, but they can pass through nonmetal containers. Microwaves can be detected by an instrument consisting of a silicon-diode rectifier connected to an amplifier, and a recording or display device. Exposure to microwaves is dangerous mainly when high densities of microwave radiation are involved, as with masers. They can cause burns, cataracts, damage to the nervous system, and sterility. The possible danger of long-term exposure to low-level microwaves is not yet well known. Nevertheless, the U. S. government limits the exposure level, in general, to 10 milliwatts per square centimeter. Stricter limits are placed on microwave ovens.

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