

<<科技英语入门>>

图书基本信息

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### 内容概要

本教材共分10单元，内容包含数学、物理学、生物学、化学、通信、电子、计算机及机械等理工科题材。

本教材最大的特色就是在口语方面做了较多尝试，编者在每章都配备了针对本单元主题和文章内容的口语题目，供老师在上课时选择性进行师生、生生等口语交流练习。

书籍目录

Unit One Mathematics and Physics Unit Two Computer Software Unit Three Computer Networks Unit Four  
Analog Electronics Unit Five Digital Logic Circuits Unit Six An Important Communication Tool--MATLAB Unit  
Seven Communication Modulation Unit Eight Mechanics Unit Nine Chemistry Unit Ten Biology

## 章节摘录

The modulation is the trapezoidal wave shown in Fig. 7-2 ( a ) , while the carrier is the cosine wave shown in Fig. 7-2 ( b ) . In the amplitude modulated case, Fig. 7-2 ( c ) , the modulation forms the envelope of the modulated carrier. That is, both the positive and negative excursions of the modulated carrier are determined by the magnitude of the modulation waveform. Notice that in the AM case neither the frequency nor the phase of the wave change with time. In the frequency-modulated wave, Fig. 7-2 ( d ) , the amplitude is constant but the frequency varies. The frequency is lowest when the modulation is least positive. One can view the frequency-modulated wave as one in which the sinusoids bunch up or spread out according to the magnitude of the modulating wave. The phase-modulated wave, Fig. 7-2 ( e ) , also exhibits bunching and spreading of sinusoids, but in a different way than for frequency modulation. During the flat portions of the modulation ( constant phase ) , the PM wave looks just like the carrier except that its phase is different.

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