图书基本信息

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内容概要

Provides an introduction to physics and chemistry from a nursing perspective. This text assumes no prior scientific knowledge. It integrates concepts from the disciplines of biology, physics, chemistry and physiology with nursing practice. It focuses on the needs of the student nurse, rather than those majoring in sciences.

书籍目录

1.INTRODUCTION-HOMEOSTASISNursing focusHomeostasisReview questions2.HUMANS AND HEATNursing focusHeat vs temperatureThe Celsius scaleMeasurement of body temperatureBody temperatureProduction of heat in the bodyImbalances in body temperature homeostasisThe movement of heatEvaporationLatent heatHeat exchange and its preventionReview questions3.THE HUMAN MACHINE (FORCES AND MECHANICS)Nursing focusFundamental physical conceptsNewton's laws of motionFrictionVectorsReview questions4.ATOMS, IONS AND MOLECULES IN THE BODY(ATOMIC THEORY)Nursing focusAtoms and the bodyChemical elements in the bodyMoleculesMixturesCompoundsAnatomy of the atomElectrons and atomsBondingChemical reactionsReview questions5.WATER IN THE BODYNursing focusThe states of matterSome special properties of matterWaterArchimedes' principleSpecific gravityElectrolytesReview questions6.BODY FLUIDS (LIQUIDS AND GASES)Nursing focusHomogeneous and heterogeneous mixturesUnits of measurementOsmolarityOsmolality......7.FLUIDS-LIQUIDS AND GASES8.ACIDS AND BASES9.BLOLOGICAL CHEMISTRY10.ENERGY IN THE BODY11.ELECTRICITY AND MAGNETISM12.LIGHT AND SOUND13.RADIATION-THERAPY AND DIAGNOSIS14.GENETICS AND HEREDITY-THE BLUEPRINT OF LIFEAPPENDIXBIBLIOGRAPHY INDEX

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