

## 14 1 Refraction Holt McDougal Section Test

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there is hardly a field of science or engineering that does not have some interest in light scattering by small particles for example this subject is important to climatology because the energy budget for the earth's atmosphere is strongly affected by scattering of solar radiation by cloud and aerosol particles and the whole discipline of remote sensing relies largely on analyzing the parameters of radiation scattered by aerosols clouds and precipitation the scattering of light by spherical particles can be easily computed using the conventional mie theory however most small solid particles encountered in natural and laboratory conditions have nonspherical shapes examples are soot and mineral aerosols cirrus cloud particles snow and frost crystals ocean hydrosols interplanetary and cometary dust grains and microorganisms it is now well known that scattering properties of nonspherical particles can differ dramatically from those of equivalent e.g. equal volume or equal surface area spheres therefore the ability to accurately compute or measure light scattering by nonspherical particles in order to clearly understand the effects of particle nonsphericity on light scattering is very important the rapid improvement of computers and experimental techniques over the past 20 years and the development of efficient numerical approaches have resulted in major advances in this field which have not been systematically summarized because of the universal

importance of electromagnetic scattering by nonspherical particles papers on different aspects of this subject are scattered over dozens of diverse research and engineering journals often experts in one discipline e.g. biology are unaware of potentially useful results obtained in another discipline e.g. antennas and propagation this leads to an inefficient use of the accumulated knowledge and unnecessary redundancy in research activities this book offers the first systematic and unified discussion of light scattering by nonspherical particles and its practical applications and represents the state of the art of this important research field individual chapters are written by leading experts in respective areas and cover three major disciplines theoretical and numerical techniques laboratory measurements and practical applications an overview chapter provides a concise general introduction to the subject of nonspherical scattering and should be especially useful to beginners and those interested in fast practical applications the audience for this book will include graduate students scientists and engineers working on specific aspects of electromagnetic scattering by small particles and its applications in remote sensing geophysics astrophysics biomedical optics and optical engineering the first systematic and comprehensive treatment of electromagnetic scattering by nonspherical particles and its applications individual chapters are written by leading experts in respective areas includes a survey of all the relevant literature scattered over dozens of basic and applied research journals consistent use of unified definitions and notation makes the book a coherent volume an overview chapter provides a concise general introduction to the subject of light scattering by nonspherical particles theoretical chapters describe specific easy to use computer codes publicly available on the world wide extensively illustrated with over 200 figures 4 in color

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