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Joy of Chemistry: The Amazing Science of Familiar Things

By Cathy Cobb, Monty L Fetterolf

Prometheus Books. Paperback. Book Condition: new. BRAND NEW, Joy of Chemistry: The Amazing Science of Familiar Things, Cathy Cobb, Monty L Fetterolf, This book challenges the perception of chemistry as too difficult to bother with and too clinical to be any for. Cathy Cobb and Monty L Fetterolf, both professional chemists and experienced educators, introduce readers to the magic, elegance, and, yes, joy of chemistry. From the fascination of fall foliage and fireworks, to the functioning of smoke detectors and computers, to the fundamentals of digestion (as when good pizza goes bad!), the authors illustrate the concepts of chemistry in terms of everyday experience, using familiar materials. The authors begin with a bangs colourful bottle rocket assembled from common objects you find in the garage - and then present the principles of chemistry using household chemicals and friendly, non-technical language. They guide the reader through the basics of atomic structure, the nature of molecular bonds, and the vibrant universe of chemical reactions. Using analogy and example to illuminate essential concepts such as thermodynamics, photochemistry, electrochemistry, and chemical equilibrium, they explain the whys and wherefores of chemical reactions. Hands-on demonstrations, selected for their ease of execution and relevance, illustrate basic principles,...



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