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Sommario/riassunto	This book adds remarkable advances in microwave chemistry, methods, equipment, and practical examples since the first edition was published

in 2018. Moreover, practical examples of the use of microwave energy have been upgraded. It also includes how to easily predict microwave heating using material constants. In addition, coupling analysis simulation with electromagnetic fields and heat transfer which greatly support researchers' experiments is covered. The principal aim of this book hasn't changed: to introduce chemists through a tutorial approach to the use of microwaves by examining several experiments of microwave chemistry and materials processing. It subsequently enables chemists to fashion their own experiments in microwave chemistry or materials processing. This book helps chemists who take an interest in the use of microwave radiation to overcome difficulties to understand the nature of electromagnetism, microwave engineering, and thermodynamics.

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