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Nota di contenuto	Chemistry In Alternative Reaction Media; CONTENTS; Preface; Abbreviations and Acronyms; 1 Chemistry in Alternative Reaction Media; 1.1 Economic and Political Considerations; 1.2 Why Do Things Dissolve?; 1.3 Solvent Properties and Solvent Classification; 1.3.1 Density; 1.3.2 Mass Transport; 1.3.3 Boiling Point, Melting Point and Volatility; 1.3.4 Solvents as Heat-Transfer Media; 1.3.5 Cohesive Pressure, Internal Pressure, and Solubility Parameter; 1.4 Solvent Polarity; 1.4.1 Dipole Moment and Dispersive Forces; 1.4.2 Dielectric Constant; 1.4.3 Electron Pair Donor and Acceptor Numbers 1.4.4 Empirical Polarity Scales 1.4.5 E(N)(T) and E(T)(30) Parameters; 1.4.6 Kamlet-Taft Parameters; 1.4.7 Hydrogen Bond Donor (HBD) and Hydrogen Bond Acceptor (HBA) Solvents; 1.5 The Effect of Solvent Polarity on Chemical Systems; 1.5.1 The Effect of Solvent Polarity on Chemical Reactions; 1.5.2 The Effect of Solvent Polarity on Equilibria; 1.6 What is Required from Alternative Solvent Strategies?; References; 2

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### Sommario/riassunto

At a time when environmental concerns are increasing, it's important that chemical processes are as environmentally friendly as possible. This book outlines various methods for producing inorganic and organic solvents without the use of traditional solvents that can have detrimental effects on the environment. This is the first book to give extensive and exclusive coverage to the topic. Includes important environmental issues. This book will appeal to anyone with an interest in organic synthesis; reaction chemistry; catalysis; and process development, and to undergraduate and g

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