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At long last, the mechanism-based and application-oriented handbook of combinatorial chemistry.; Since its very beginning, research in this field has continued to develop at a rapid rate. Increasingly elegant methods are being invented and an even wider range of possible applications is still being discovered, such that combinatorial chemistry is now an integral part of industrial and academic research.; The high-class editorial team - K. C. Nicolaou of The Scripps Institute and UCSD, and R. Hanko and W. Hartwig from Bayer - ensure comprehensive coverage and top quality contributions. This two-volume work deals with synthetic chemistry in all its forms, applications from life sciences, chemistry and; material sciences, all there is to know about compound library design and synthesis, and, of course, the general basics - making it an indispensable reference for synthetic, organic and medicinal chemists, chemical biologists as well as material scientists.