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| Autore | Medenica W. V (Walter Vojislav) |
| Titolo | Blast shields testing / / by Walter V. Medenica |
| Pubbl/distr/stampa | Washington, D.C. : , : National Aeronautics and Space Administration, , November 1968 |
| Descrizione fisica | 1 online resource (ix, 59 pages) : illustrations |
| Collana | NASA/TN ; ; D-4894 |
| Soggetti | Liquid oxygen<br>Liquid hydrogen<br>Blasting - Safety measures<br>Steel |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "November 1968." |
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| Titolo | Modern methods in stereoselective aldol reactions / / edited by Rainer Mahrwald |
| Pubbl/distr/stampa | Weinheim, : Wiley-VCH, 2013 |
| ISBN | 9783527656714<br>3527656715<br>9783527656738<br>3527656731<br>9781299402140<br>1299402143<br>9783527656745<br>352765674X |
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| Descrizione fisica | 1 online resource (552 p.) |
| Altri autori (Persone) | MahrwaldRainer |
| Disciplina | 547.036 |
| Soggetti | Aldol condensation<br>Aldehydes |
| Lingua di pubblicazione | Inglese |
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| Livello bibliografico | Monografia |
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| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Modern Methods in Stereoselective Aldol Reactions; Contents; Preface; List of Contributors; 1 Stereoselective Acetate Aldol Reactions; 1.1 Introduction; 1.2 Mukaiyama Aldol Reaction; 1.2.1 Concept and Mechanism; 1.2.2 Chiral Auxiliaries; 1.2.3 Chiral Methyl Ketones; 1.2.4 Chiral Aldehydes; 1.2.4.1 1,2-Asymmetric Induction; 1.2.4.2 1,3-Asymmetric Induction; 1.2.4.3 Merged 1,2- and 1,3-Asymmetric Induction; 1.2.5 Chiral Lewis Acids; 1.2.6 Chiral Lewis Bases; 1.3 Metal Enolates; 1.3.1 Concept and Mechanism; 1.3.2 Chiral Auxiliaries; 1.3.3 Stoichiometric Lewis Acids; 1.3.4 Catalytic Lewis Acids<br>1.3.5 Chiral Aldehydes1.3.6 Chiral Methyl Ketones; 1.3.6.1 a-Methyl Ketones; 1.3.6.2 a-Hydroxy Ketones; 1.3.6.3 b-Hydroxy Ketones; 1.3.6.4 b-Hydroxy a-Methyl Ketones; 1.3.6.5 a,b-Dihydroxy Ketones; 1.3.6.6 Remote Stereocontrol; 1.4 Conclusions; References; 2 The Vinylogous Mukaiyama Aldol Reaction in Natural Product Synthesis; 2.1 Introduction; 2.2 Aldehyde-Derived Silyl Dienol Ethers; 2.2.1 Aldehyde- |

Derived Silyl Dienol Ethers - Diastereoselective Processes; 2.2.2 Aldehyde-Derived Silyl Dienol Ethers - Enantioselective Processes; 2.3 Ester-Derived Silyl Dienol Ethers
2.3.1 Ester-Derived Silyl Dienol Ethers - Diastereoselective Processes2.3.2 Ester-Derived Silyl Dienol Ethers - Enantioselective Processes; 2.3.3 Ester-Derived Silyl Dienol Ethers - Enantioselective and Substrate-Controlled Processes; 2.4 Amide-Derived Silyl Dienol Ethers - Vinylketene Silyl N,O-Acetals; 2.4.1 Model Systems - Kobayashi's Pioneering Studies; 2.4.2 Total Syntheses; 2.5 Acyclic Acetoacetate-Derived Silyl Dienolates - Chan's Diene; 2.5.1 Chan's Diene in Diastereoselective Processes; 2.5.2 Chan's Diene in Enantioselective Processes
2.5.3 Chan's Diene in Enantioselective and Substrate-Controlled Processes2.6 Cyclic Acetoacetate-Derived Dienolates; 2.6.1 Cyclic Acetoacetate-Derived Dienolates - Diastereoselective Processes; 2.6.2 Cyclic Acetoacetate-Derived Dienolates - Enantioselective Processes; 2.6.3 Cyclic Acetoacetate-Derived Dienolates - Enantioselective and Substrate-Controlled Processes; 2.7 Furan-Derived Silyloxy Dienes; 2.7.1 Furan-Derived Silyloxy Dienes - Diastereoselective Processes; 2.7.2 Furan-Derived Silyloxy Dienes - Enantioselective Processes
2.7.3 Furan-Derived Silyloxy Dienes - Enantioselective and Substrate-Controlled Processes2.8 Pyrrole-Based 2-Silyloxy Dienes; 2.9 Comparison with Other Methods; References; 3 Organocatalyzed Aldol Reactions; 3.1 Introduction; 3.2 Proline as Organocatalyst; 3.2.1 Intramolecular Reactions; 3.2.1.1 Intramolecular Proposed Mechanism; 3.2.1.2 Application to Natural Product Synthesis; 3.2.2 Intermolecular Reactions; 3.2.2.1 Ketones as Source of Nucleophile; 3.2.2.2 Aldehydes as Source of Nucleophile; 3.2.2.3 Intermolecular Reaction Mechanism; 3.2.2.4 Application to Natural Product Synthesis
3.3 Proline Derivatives as Organocatalysts

Sommario/riassunto

This sequel to the highly successful and much appreciated ""Modern Aldol Reactions"" continues to provide a systematic overview of methodologies for installing a required configuration during an aldol addition step, but shifts the focus so as to cover the latest developments.As such, it presents a set of brand new tools, including vinylogous Mukaiyama-aldol reactions, substrate-controlled aldol reactions and asymmetric induction in aldol additions. Furthermore, novel developments in existing stereoselective aldol additions are described, such as the deployment of supersilyl groups or organ