

1. Record Nr.	UNINA9910777020403321
Titolo	Geometric modeling and algebraic geometry [[electronic resource] /] / Bert Juttler, Ragni Piene, editors
Pubbl/distr/stampa	Berlin, : Springer, c2008
ISBN	1-281-14111-9 9786611141110 3-540-72185-1
Descrizione fisica	1 online resource (235 p.)
Altri autori (Persone)	JuttlerB (Bert) PieneRagni DokkenTor
Disciplina	516.3/52
Soggetti	Curves on surfaces - Mathematical models Geometry, Algebraic Geometrical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Revised papers from a workshop series on computational methods for algebraic spline surfaces held in Oslo, Norway in Sept. 14-16, 2005 which was aligned with the final review of the European project GAIA II entitled "Intersection algorithms for geometry based IT-applications using approximate algebraic methods" (IST 2001-35512).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Survey of the European project GAIA II -- pt. 2. Some special algebraic surfaces -- pt. 3. Algorithms for geometric computing.
Sommario/riassunto	The two fields of Geometric Modeling and Algebraic Geometry, though closely related, are traditionally represented by two almost disjoint scientific communities. Both fields deal with objects defined by algebraic equations, but the objects are studied in different ways. While algebraic geometry has developed impressive results for understanding the theoretical nature of these objects, geometric modeling focuses on practical applications of virtual shapes defined by algebraic equations. Recently, however, interaction between the two fields has stimulated new research. For instance, algorithms for solving intersection problems have benefited from contributions from the algebraic side. The workshop series on Algebraic Geometry and Geometric Modeling

(Vilnius 1 2 2002 , Nice 2004) and on Computational Methods for Algebraic Spline Surfaces 3 (Kefermarkt 2003 , Oslo 2005) have provided a forum for the interaction between the two ?elds. The present volume presents revised papers which have grown out of the 2005 Oslo workshop, which was aligned with the ?nal review of the European project GAIA II, entitled Intersection algorithms for geometry based IT-applications 4 using approximate algebraic methods (IST 2001-35512)

2. Record Nr.	UNINA9910830581303321
Autore	Taber D. F (Douglass F.), <1948->
Titolo	Organic synthesis [[electronic resource]] : state of the art 2005-2007 / / Douglass F. Taber
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2008
ISBN	1-281-76689-5 9786611766894 0-470-38597-9 0-470-38596-0
Descrizione fisica	1 online resource (242 p.)
Collana	Organic Synthesis: State of the Art ; ; v.2
Classificazione	CHE 620f VK 5500
Disciplina	547.2
Soggetti	Organic compounds - Synthesis Organic compounds - Synthesis - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Organic Synthesis: State of the Art 2005-2007; Contents; Preface; 1. Synthesis of (-)- Littoralisone; 2. Enantiocontrolled Construction of Oxygenated and Animated Stereogenic Centers; 3. Catalytic Enantioselective Construction of Alkylated Stereogenic Centers; 4. Catalytic Enantioselective Aldol/Mannich Reactions Leading to Extended Arrays of Stereogenic Centers; 5. Alternative Strategies for the Construction of Extended Arrays of Stereogenic Centers; 6. Synthesis of (-)- Avrainvillamide and (+)- Stephacidin B; 7. Best Synthetic Methods:

Oxidation; 8. Best Synthetic Methods: Reduction
 9. Selective Reactions of Alkenes
 10. Synthesis of the Potent FBBP12 Ligand Antascomycin B; 11. Best Synthetic Methods: Carbon-Carbon Bond Formation; 12. Enantioselective Construction of Quaternary Centers; 13. Pd-Mediated Arylation of Aromatic and Hetero Aromatic Rings; 14. The Overman Route to Gelsemine; 15. Stereoselective Construction of Oxygen Heterocycles; 16. Enantioselective Construction of Naturally-Occurring Cyclic Ethers; 17. Stereoselective Construction of Nitrogen Heterocycles; 18. The Stork Synthesis of (-)- Reserpine
 19. Stereocontrolled Construction of Azacyclic Natural Products
 20. Preparation of Benzene Derivatives; 21. Preparation of Heteroaromatics; 22. Preparation and Reactions of Carboxylic Acids, Esters and Amides; 23. The Boger Route to (-)-Vindoline; 24. Protection of C-O and C-N; 25. New Catalysts and Strategies for Alkene Metathesis; 26. Creative Applications of Alkene and Alkyne Metathesis in Total Synthesis: (+)-8-epi-Xanthatin, (+)-Longicin, Latrunculin A, and Garsubellin A; 27. Synthesis of Erythronolide A; 28. Best Synthetic Methods: C-C Bond Formation
 29. Catalytic Enantioselective Homologation of Aldehydes to Alcohols and Amines
 30. Catalytic Enantioselective Construction of Alkylated Stereogenic Centers; 31. Enantioselective Construction of Arrays of Stereogenic Centers; 32. Adventures in Complex Indole Synthesis: (-)-Fischerindole I, (+)-Fischerindole G and (+)-Weltwitindolinone A; 33. New Dienes and Dienophiles for Intermolecular and Intramolecular Diels-Alder Cycloadditions; 34. Organocatalytic Preparation of Enantiomerically-Pure Carbocycles; 35. Carbocycle Construction by the Opening of Strained Rings: Synthesis of Tremulenolide A
 36. The Corey Route to the Dolabellanes: Isoedunol and -Araneosene
 37. Transition-Metal Catalyzed Enantioselective Ring Construction; 38. Best Synthetic Methods: Functional Group Transformation; 39. Selective Reactions of Alkenes; 40. Synthesis and Absolute Stereochemical Assignment of (-)-Galbulimima Alkaloid 13; 41. Preparation of Benzene Derivatives; 42. Preparation of Heteroaromatic Derivatives; 43. Functional Group Transformation; 44. Functional Group Protection; 45. The Leighton Synthesis of Dolabelide D; 46. Stereocontrolled Construction of N-Heterocycles
 47. Stereocontrolled Construction of O-Heterocycles

Sommario/riassunto

The second volume in a series, Organic Synthesis: State of the Art 2005-2007 will provide you with a convenient, compact summary of the state of the art of organic synthesis. This reference guide will quickly lead you to the most important recent developments like how scientists can now prepare ketones by directly combining aldehydes with terminal alkenes. Inside, you will find detailed analysis of more than twenty total syntheses, including the Davies Synthesis of (-)-Colombiasin A and (-)-Elisapterosin B, the Overman Synthesis of (-)-Sarain A, and the Sorensen Synthesis of (-)-Guanaca