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Autore	Armarego W. L. F
Titolo	Fused pyrimidines . Part I Quinazolines [[electronic resource] /] / W.L.F. Armarego; edited by D.J. Brown
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Collana	The chemistry of heterocyclic compounds ; ; 24/1
Altri autori (Persone)	BrownD. J
Disciplina	547/.59/05
Soggetti	Quinazoline Heterocyclic compounds Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographies and indexes.
Nota di contenuto	QUINAZOLINES; Contents; Tables; I. Introduction; 1. History; 2. Nomenclature; 3. The Dual Character of Quinazolines; 4. General Summary of Quinazoline Chemistry; A. Syntheses; a. Primary Syntheses; b. Secondary Syntheses; B. The Heightened Reactivity of 2- and 4-Alkyl Groups; C. Addition and Substitution Reactions, and Nucleophilic Metathesis; D. N-Oxides; E. Tautomerism; F. Oxidation and Reduction; G. Rearrangements; H. Biological Activity in Quinazolines; 5. Tables; Introduction; 6. References; II. Quinazoline; 1. Synthesis of Quinazoline; 2. Physical Properties II.1. Quinazoline and 3-Alkyl Derivatives A. Theoretical Aspects; B. Spectra; a. Ultraviolet Spectra; b. Phosphorescence Spectra; c. Infrared Spectra; d. Proton Magnetic Resonance Spectra; e. Mass Spectra; C. Covalent Hydration; a. Covalent Hydration in Quinazoline; b. Effect of Substituents in the Pyrimidine Ring on Covalent Hydration; (i) Effect of substituents in position 4; (ii) Effect of substituents in position 2; c. Effect of Substituents in the Benzene Ring on Covalent Hydration; II.2. Electronic Effects and Hydration in 2-Substituted Quinazoline Cations II.3. Ionization and Covalent Hydration of Quinazolines in Water at 20°

II.4. Ionization Constants of Substituted Quinazolines in Water at 20°; D. Polarography; 3. Chemical Reactivity of Quinazoline; A. Hydrolysis, Oxidation, and Reduction; B. Electrophilic and Nucleophilic Substitution, and Alkylation; C. Addition Reactions; 4. References; III. C-Alkyl- and C-Arylquinazolines; 1. Methods of Preparation; A. Bischler's Synthesis; B. Oxidation of 3, 4-Dihydroquinazolines; C. Decarboxylation of Acids; D. From N'-Toluene-p-sulphonyldrazino Derivatives; E. From Imidoyl Chlorides and Nitriles F. From Aryl Diazonium Salts and Nitriles G. From 4-Chloro or 4-cyanoquinazolines and Grignard Reagents; H. From Chloro- or Cyanoquinazolines and Substances with an Active Methylene Group; I. Reidel's Synthesis; J. Miscellaneous; 2. Properties; A. Physical Properties; B. Chemical Properties; a. The Heightened Reactivity of 2- and 4-Methyl Groups; b. Oxidation and Reduction; c. Electrophilic Substitution; d. Alkylation; e. Reactivity of the Substituted Carbon Atoms Attached to C(2) and C(4); 3. Tables; III.1. 2-Alkyl- and Aryl-(including Heteroaryl-) quinazolines III.2. 4-Alkyl- and Aryl- (including Heteroaryl-) quinazoline all III.3. 2,4-Disubstituted Alkyl- and Arylquinazolines; III.4. Alkylquinazolines Substituted in the Benzene Ring; III.5. Alkyl- and Arylquinazolines Substituted in Both Rings; III.6. Miscellaneous Alkyl- and Arylquinazolines (including Quina-zolinium Salts); 4. References; IV. Oxoquinazolines and 5-, 6-, 7-, and 8-Hydroxyquinazolines; 1. 2-Oxoquinazolines; A. Preparation; B. Properties; 2. 3,4- and 1,4-Dihydro-4-oxoquinazolines; A. Preparation of 3,4-Dihydro-4-oxoquinazolines; a. Niementowski's Synthesis b. Cyclization of o-Amidobenzamides

Sommario/riassunto

Chemistry of Heterocyclic Compounds publishes articles, letters to the Editor, reviews, and minireviews on the synthesis, structure, reactivity, and biological activity of heterocyclic compounds including natural products. The journal covers investigations in heterocyclic chemistry taking place in scientific centers of all over the world, including extensively the scientific institutions in Russia, Ukraine, Latvia, Lithuania and Belarus.

2. Record Nr.	UNINA9910717416103321
Autore	Shahandashti Mohsen
Titolo	Construction Analytics : Forecasting and Investment Valuation / / by Mohsen Shahandashti, Bahram Abediniangerabi, Ehsan Zahed, Sooin Kim
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-27292-7
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (VIII, 186 p.)
Disciplina	624.0681 690.0285
Soggetti	Construction industry - Management Buildings - Design and construction Building materials Valuation Civil engineering Construction Management Building Construction and Design Building Materials Investment Appraisal Civil Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Introduction to Construction Analytics -- Chapter 2. Construction Forecasting using Univariate Time Series Models -- Chapter 3. Construction Forecasting Using Time-series Volatility Models -- Chapter 4. Construction Forecasting using Multivariate Time Series Models -- Chapter 5. Construction Forecasting Using Recurrent Neural Networks -- Chapter 6. Investment Valuation of Construction Projects Under Uncertainty -- Appendices: Construction time series datasets, including National Highway Construction Cost Index (NHCCI), Federal Highway Construction Spending, Iowa Highway Construction.
Sommario/riassunto	This text covers R program coding for the implementation of two essential data analytics for practical construction problems. The first

part of this book explains time series basics, models, and forecasting approaches in the context of the construction industry, accompanied by practical examples in construction. The second part describes the concept of investment valuation for construction projects and provides both deterministic and probabilistic techniques to conduct investment valuation on construction projects. R code scripts are provided in this book for solving practical problems in the construction industry. This book is also equipped with an R Package entitled "cdar" to provide the necessary functions for performing investment valuation. The book maximizes students' understanding of the necessary theoretical background of data analytics, and explains the implementation of data analytics techniques to solve the actual problems in the construction industry. Illustrates theoretical explanations of construction analytics, hands-on practices, and R codes for analytics techniques; Enables readers to investigate the problems in the construction industry such as cost overruns and investment timing; Reinforces concepts presented with problems and solutions, datasets, and programming codes.
