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Nota di contenuto	Name Reactions in Heterocyclic Chemistry; Table of Contents; Foreword; Preface; Acronyms and abbreviations; PART 1 THREE- AND FOUR-MEMBERED HETEROCYCLES; Chapter 1 Epoxides and Aziridines; 1.1 Corey-Chaykovsky reaction; 1.2 Darzens glycidic ester condensation; 1.3 Hoch-Campbell aziridine synthesis; 1.4 Jacobsen-Katsuki epoxidation; 1.5 Paterno-Buchi reaction; 1.6 Sharpless-Katsuki epoxidation; 1.7 Wenker aziridine synthesis; PART 2 FIVE-MEMBERED HETEROCYCLES; Chapter 2 Pyrroles and Pyrrolidines; 2.1 Barton-Zard reaction; 2.2 Knorr and Paal-Knorr pyrrole syntheses 2.3 Hofmann-Löffler-Freytag reaction Chapter 3 Indoles; 3.1 Bartoli indole synthesis; 3.2 Batcho-Leimgruber indole synthesis; 3.3 Bucherer carbazole synthesis; 3.4 Fischer indole synthesis; 3.5 Gassman indole synthesis; 3.6 Graebe-Ullman carbazole synthesis; 3.7 Hegedus indole synthesis; 3.8 Madelung indole synthesis; 3.9 Nenitzescu indole synthesis; 3.10 Reissert indole synthesis; Chapter 4 Furans; 4.1 Feist-Benary furan synthesis; 4.2 Paal-Knorr furan synthesis; Chapter 5 Thiophenes; 5.1 Fiesselmann thiophene synthesis; 5.2 Gewald

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5.3 Hinsberg synthesis of thiophene derivatives 5.4 Paal thiophene synthesis; Chapter 6 Oxazoles and Isoxazoles; 6.1 Claisen isoxazole synthesis; 6.2 Cornforth rearrangement; 6.3 Erlenmeyer-Plochl azlactone synthesis; 6.4 Fischer oxazole synthesis; 6.5 Meyers oxazoline method; 6.6 Robinson-Gabriel synthesis; 6.7 van Leusen oxazole Synthesis; Chapter 7 Other Five-Membered Heterocycles; 7.1 Auwers flavone synthesis; 7.2 Bucherer-Bergs reaction; 7.3 Cook-Heilbron 5-amino-thiazole synthesis; 7.4 Hurd-Mori 1,2,3-thiadiazole synthesis; 7.5 Knorr pyrazole synthesis; PART 3 SIX-MEMBERED HETEROCYCLES

Chapter 8 Pyridines 8.1 Preparation via condensation reactions; 8.1.1 Hantzsch (dihydro)-pyridine synthesis; 8.1.1.1 Description; 8.1.1.2 Historical perspective; 8.1.1.3 Mechanism; 8.1.1.4 Variations; 8.1.1.4.1 Guareschi-Thorpe pyridine synthesis; 8.1.1.4.2 Chichibabin (Tschitschibabin) pyridine synthesis; 8.1.1.4.3 Bohlmann-Rahtz pyridine synthesis; 8.1.1.4.4 Krohnke pyridine synthesis; 8.1.1.4.5 Petrenko-Kritschenko piperidone synthesis; 8.1.1.5 Improvements or modifications; 8.1.1.6 Experimental; 8.1.1.6.1 Three-component coupling; 8.1.1.6.2 Two-component coupling; 8.1.1.7 References 8.2 Preparation via cycloaddition reactions 8.2.1 Boger reaction; 8.3 Preparation via rearrangement reactions; 8.3.1 Boekelheide reaction; 8.3.2 Ciamician-Dennstedt rearrangement; 8.4 Zincke reaction; Chapter 9 Quinolines and Isoquinolines; 9.1 Bischler-Napieralski reaction; 9.2 Camps quinoline synthesis; 9.3 Combes quinoline synthesis; 9.4 Conrad-Limpach reaction; 9.5 Doeblner quinoline synthesis; 9.6 Friedlander synthesis; 9.7 Gabriel-Colman rearrangement; 9.8 Gould-Jacobs reaction; 9.9 Knorr quinoline synthesis; 9.10 Meth-Cohn quinoline synthesis; 9.11 Pfitzinger quinoline synthesis 9.12 Pictet-Gams isoquinoline synthesis

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### Sommario/riassunto

Covers important name reactions relevant to heterocyclic chemistry. The field of heterocyclic chemistry has long presented a special challenge for chemists. Because of the enormous amount and variety of information, it is often a difficult topic to cover for undergraduate and graduate chemistry students, even in simplified form. Yet the chemistry of heterocyclic compounds and methods for their synthesis form the bedrock of modern medicinal chemical and pharmaceutical research. Thus there is a great need for high quality, up-to-date, and authoritative books on heterocyclic synthesis helpful to

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