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Nota di contenuto	MULTI-SULFUR AND SULFUR AND OXYGEN FIVE- AND SIXMEMBERED HETEROCYCLES; CONTENTS OF PART ONE; 1. C2O2S Ring Systems; I. C2O2S 1, 3, 2-Dioxathiolane and 1, 3, 2-Dioxathiole; A. Sulfite Esters of 1, 2-Glycols; 1. Preparation; 2. Structure and Physical Properties; 3. Reactions; 4. Uses; B. Sulfate Esters of 1, 2-Glycols; 1. Preparation; 2. Structure and Reactions; C. Sulfate Esters of Enediols; D. 1, 3, 2-Dioxathiolan-4-one 2-Oxides; II. C4-C2O2S 2, 4-Dioxa-3-thiabicyclo [3. 2. 0]heptane; III. C2O2S-C2O2S 1, 3, 2-Dioxathiolo[1, 3, 2] dioxathiole Glyoxal Sulfate IV. C2O2S-C4O Furo[3, 4-d]-I, 3, 2-dioxathioleV. C2O2S-C4S Thieno [3, 4-d]-1, 3, 2-dioxathiole; VI. C2O2S-C5 3aH-Cyclopenta-1, 3, 2-dioxathiole; VII. C2O2S-C5O 4H-Pyrano[3, 4-d]-1, 3, 2-dioxathiole; VIII. C2O2S-C6 1, 3, 2-Benzodioxathiole; A. Sulfite Esters; B. Sulfate Esters; IX. C2O2S-C7 4H-Cyclohepta-1, 3, 2-dioxathiole; X. C2O2S-C4O-C4O 1, 7, 11, 13-Tetraoxa-12-thiadispiro-[4. 0. 4. 3]trideca-3, 9-diene-2, 8-dione; XI. C2O2S-C4N-C5N 6H-Cyclohepta-1, 3, 2-dioxathiol-4, 8-imine; XII. C2O2S-C5-C6 8H-Indeno[1, 2-d]-1, 3, 2-

dioxathiole

XIII. C2O2S-C4O2-C5O 4H, 6H-1, 3, 2-Dioxathiolo[4, 5]-pyrano[3, 2-d]-m-dioxinXIV. C2O2S-C6C6; A. Naphtho[1, 2-d]-1, 3, 2-dioxathiole; B. Naphtho[2, 3-d]-1, 3, 2-dioxathiole; XV. C2O2S-C6-C6-C6; A. Anthra[1, 2-d]-1, 3, 2-dioxathiole; 1. Sulfite Esters; 2. Sulfate Esters; B. Anthra[2, 3-d]-1, 3, 2-dioxathiole; C. Phenanthro[9, 10-d]-1, 3, 2-dioxathiole; XVI. C2O2S-C4N-C4N-C9O2 [1, 3, 2]Dioxathiolo-[4', 5' : 8, 9][1, 6]dioxacycloundeca[2, 3, 4-gh]-pyrrolizine; XVII. C2O2S-C4N-C4N-C10O2 Spiro[1, 6]dioxacyclododeca-[2, 3, 4-gh]-pyrrolizine-9 (8H), 4'-[1, 3, 2]-dioxathiolane  
XVIII. C2O2S-C5-C6-C6-C6A. Cyclopenta[1, 2]phenanthro[4, 4a-d][1, 3, 2]-dioxathiole; B. Cyclopenta[1, 2]phenanthro[1, 10a-d][1, 3, 2]-dioxathiole; XIX. C2O2S-C6-C6-C6-C6; A. Chryseno[5, 6-d]-1, 3, 2-dioxathiole; B. 4, 9-o-Benzenonaphtho[2, 3-d]-1, 3, 2-dioxathiole; XX. C2O2S-C4O-C4O-C5-C6-C6 3H, 9H-11b, 13a-Epoxyccyclopenta[1, 2]phenanthro[4, 4a-d][1, 3, 2]dioxathiole; 2. C2OS2 Ring Systems; I. 1, 2, 5-Oxadithia Compounds; A. C2OS2 1, 2, 5-Oxadithiolane; B. C2OS2-C4SThieno[3, 4-c][1, 2, 5]oxadithiole; C. C2OS2-C6 2, 1, 3-Benzoxadithiole; D. C2OS2-C6-C6 Naphth[1, 2-c][1, 2, 5]oxadithiole II. 1, 3, 4-Oxadithia CompoundsC2OS2 1, 3, 4-Oxadithiolane; 3. C2S3 Ring Systems; I. 1, 2, 3-Trithia Compounds; A. C2S3 1,2,3-Trithiole; B. C2S3-C6 Benzotrithiole; C. C2S3-C4N2-C6 Trithiolo[4, 5-b]quinoxaline; II. 1, 2, 4-Trithia Compounds; A. C2S3 1, 2, 4-Trithiolane; B. Spiro Derivatives of 1, 2, 4-Trithiolane; 4. C3OS Ring Systems; I. 1, 2-Oxathia Compounds; A. C3OS 5H-1, 2-Oxathiole, 3H-1, 2-Oxathiole, and 1, 2-Oxathiolane; 1. 3H-1, 2-Oxathiole; 2. 5H-1, 2-Oxathiole; 3. 1, 2-Oxathiolane; a. 1, 2-Oxathiolane 2, 2-Dioxide; (1) Preparation; (a) From 3-Chloroalkanesulfonic Acids  
(b) From 3-Hydroxyalkanesulphonic Acids

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## 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.

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Titolo	Fundamentals of Functional Analysis / / by Douglas Farenick
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Descrizione fisica	1 online resource (XIV, 451 p. 2 illus.)
Collana	Universitext, , 0172-5939
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Soggetti	Functional analysis Measure theory Operator theory Functional Analysis Measure and Integration Operator Theory
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Preface -- Topological Spaces -- Topological Spaces with Special Properties -- Measure Theory -- Integration -- Banach Spaces -- Dual Spaces -- Convexity -- Banach Space Operators -- Spectral Theory in Banach Algebras -- Hilbert Space Operators -- Algebras of Hilbert Space Operators -- References -- Index.
Sommario/riassunto	This book provides a unique path for graduate or advanced undergraduate students to begin studying the rich subject of functional analysis with fewer prerequisites than is normally required. The text begins with a self-contained and highly efficient introduction to topology and measure theory, which focuses on the essential notions required for the study of functional analysis, and which are often buried within full-length overviews of the subjects. This is particularly useful for those in applied mathematics, engineering, or physics who need to have a firm grasp of functional analysis, but not necessarily some of the more abstruse aspects of topology and measure theory normally encountered. The reader is assumed to only have knowledge of basic real analysis, complex analysis, and algebra. The latter part of the text provides an outstanding treatment of Banach space theory and operator

theory, covering topics not usually found together in other books on functional analysis. Written in a clear, concise manner, and equipped with a rich array of interesting and important exercises and examples, this book can be read for an independent study, used as a text for a two-semester course, or as a self-contained reference for the researcher. .

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