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Titolo	Furan Polymers and Their Reactions
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Altri autori (Persone)	LacerdaTalita M
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Soggetti	Furan resins Furfural Polymerization Chemical reactions
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	<p>Intro -- Furan Polymers and their Reactions -- Contents -- Foreword</p> <p>-- Preface -- 1 A Brief History -- 2 The Peculiar Chemical Features of the Furan Heterocycle and the Synthesis of Furfural and Hydroxymethylfurfural -- 2.1 Free Radical Reactions -- 2.2 Electrophilic Reactions -- 2.3 Photochemistry -- 2.4 Hydrolysis Reactions -- 2.5 The Diels-Alder Reaction -- 2.6 Furfural and Hydroxymethylfurfural as Industrial Commodities and as Building Blocks for Furan Monomers -- 3 Polymers from Furfural and Furfuryl Alcohol -- 3.1 Furfural Resins -- 3.2 Furfuryl Alcohol Resins -- 4 Polymers from Chain Polyaddition Reactions -- 4.1 Free Radical Systems -- 4.2 Cationic Systems -- 4.3 Anionic Systems -- 4.4 Stereospecific Systems -- 5 Polymers from Polycondensation (Step) Reactions -- 5.1 Polyesters -- 5.2 Polyamides -- 5.3 Polyurethanes -- 5.4 Polyureas, Polyparabanic Acids, Polybenzoxazines, polySchiff Bases, and Polyhydrazides -- 5.5 Conjugated Furan Oligomers and Polymers -- 5.6 Epoxy Resins -- 6 The Furan/Maleimide Diels-Alder Reaction Applied to Polymer Synthesis and Modification -- 6.1 Polycondensations (Step-growth Polymerizations) -- 6.2 Polymer Modification and Cross-linking -- 6.3 Miscellaneous Systems -- 6.4 A</p>

Sommario/riassunto

"Furfural (F) industrial production, from pentose-rich oat hulls, begun in 1922 at the Quaker Oats cereal mill in Iowa, and soon after its first resins for molding and abrasive tools were on the market in the US. That was followed by furfuryl alcohol (FA) industrial production by the same company in 1934, through an efficient F reduction process, and its resins for the foundry business in 1958 became commercially available. In both instances, these materials were crosslinked polymers with useful thermal and mechanical properties, but little was known about their mechanisms of formation and ultimate structures. It is most likely that the resinification of both these furans was a frequent unwanted event when handling them from their earlier synthetic operations and isolation, given their sensitivity to accidental polymerization, particularly in acidic media. It is moreover particularly relevant to note that since the inception of a series of thermoplastic (cellulose esters) and thermoset (linoleum and vulcanized natural rubber) materials from renewable resources during the second half of the XIX century, these furan resins were the first novel materials being produced from renewable resources in the XX century"--

2. Record Nr.	UNINA9910767537703321
Titolo	The ASMBS Textbook of Bariatric Surgery // edited by Ninh T. Nguyen, Stacy A. Brethauer, John M. Morton, Jaime Ponce, Raul J. Rosenthal
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ISBN	9783030270216 3030270211
Edizione	[2nd ed. 2020.]
Descrizione fisica	1 online resource (649 pages) : illustrations
Collana	Medicine Series
Disciplina	617.43
Soggetti	Surgery Endoscopic surgery General Surgery Minimally Invasive Surgery
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Nota di contenuto	Part I: Basic Considerations -- Epidemiology and Discrimination in Obesity -- The Pathophysiology of Obesity and Obesity-Related Disease -- History of the Development of Metabolic/Bariatric Surgery -- The History of the American Society for Metabolic and Bariatric Surgery -- Physiological Mechanisms of Bariatric Procedures -- Indications and Contraindications for Bariatric Surgery -- Preoperative Care of the Bariatric Patient -- Anesthetic Considerations -- Components of a Metabolic and Bariatric Surgery Center -- Evaluation of Preoperative Weight Loss -- ASMBS Position Statements -- Primary Bariatric Surgery and Management of Complications -- Laparoscopic Gastric Bypass: Technique and Outcomes -- Laparoscopic Sleeve Gastrectomy: Technique and Outcomes -- Biliopancreatic Diversion With Duodenal Switch: Technique and Outcome -- Single Anastomosis Duodeno-ileostomy -- Laparoscopic One Anastomosis Gastric Bypass: History of the Procedure Surgical Technique and Outcomes -- Part III: Management of Bariatric Complications -- Management of Gastrointestinal Leaks and Fistula -- Gastrointestinal Obstruction After Bariatric Surgery -- Postoperative Bleeding in the Bariatric Surgery Patient -- Management of Marginal Ulcers -- Gastric Banding

Complications: Management -- Management of Nutritional Complications -- Early and Late Dumping Syndromes -- Part IV
Reoperative Bariatric Surgery for Weight Regain and Complications -- Reoperative Bariatric Surgery -- Reoperative Options After Gastric Banding -- Reoperative Options After Sleeve Gastrectomy -- Reoperative Options After Gastric Bypass -- Revisional Bariatric Surgery for Management of Late Complications -- Revisional Surgery Data and Guidelines -- Part V: Metabolic Surgery -- Operation of Choice for Metabolic Surgery -- Outcomes of Metabolic Surgery -- Operative Outcomes of Metabolic/ Bariatric Surgery in Subjects With Type One Obesity Index (30-35 kg/m²) -- Part VI: Endoscopic Bariatric Surgery -- The Role of Preoperative Endoscopy in Bariatric Surgery -- Intragastric Balloon Therapy -- Endoluminal Gastric Pouch Revision -- Endoscopic Primary Bariatric Procedures -- Endoscopic Management of Stomal Stenosis -- Part VII: Quality in Bariatric Surgery -- Patient Safety -- LABS Project -- Quality in Bariatric Surgery -- Patient Experience and Perioperative Pathway in Bariatric Surgery -- Decreasing Readmissions in Bariatric Surgery -- Enhanced Recovery in Bariatric Surgery -- Part VIII: Specific Considerations -- Biliary Tract Disease in the Bariatric Surgery Patient -- Joint Disease and Obesity: Opportunity for Multi-Disciplinary Investigation and Collaboration -- Cardiac Risk Factor Improvement Following Bariatric Surgery -- Critical Care Considerations in the Bariatric Patient -- Bariatric Surgery in Adolescents -- Pregnancy Issues and Bariatric Surgery -- Robotics in Bariatric Surgery -- Body Contouring After Massive Weight Loss -- The Practice of Bariatric Coding and Reimbursement -- Medical Malpractice in Bariatric Surgery: The ASMBS Journey to a Closed Claims Registry -- Obesity Prevention -- Training in Bariatric Surgery -- Adjuvant Pharmaceutical Therapy for Perioperative Use in Bariatric Surgery.

Sommario/riassunto

The fully updated second edition of this textbook continues to serve as a comprehensive guide for information dealing with the ever-evolving field of bariatric surgery. The chapters are written by experts in the field and include the most up-to-date information, including new sections on quality in bariatric surgery, endoscopic surgery, and management of bariatric complications. This new edition continues to cover the basic considerations for bariatric surgery, the currently accepted procedures, outcomes of bariatric surgery including long-term weight loss, improvement and resolution of comorbidities, and improvement in quality of life. Other special emphasis is given to the topics of metabolic surgery and surgery for patients with lower BMI. In addition, new endoscopic bariatric procedures including the gastric balloons, endoscopic revisional procedures, and newer pharmacotherapy for obesity are reviewed. The ASMBS Textbook of Bariatric Surgery Second Edition will continue to be a leading source of scientific information for surgeons, physicians, residents, students, and integrated health members today and for years to come.
