

1. Record Nr.	UNINA9910454773603321
Titolo	Topology and physics [[electronic resource]] : Proceedings of the Nankai International Conference in Memory of Xiao-Song Lin, Tianjin, China, 27-31 July 2007 // editors, Kevin Lin, Zhenghan Wang, Weiping Zhang
Pubbl/distr/stampa	Hackensak, N.J., : World Scientific, c2008
ISBN	981-281-911-8
Descrizione fisica	1 online resource (468 p.)
Collana	Nankai tracts in mathematics ; ; v. 12
Altri autori (Persone)	LinXiao-song <1957-2007.> LinKevin WangZhenghan ZhangWeiping <1964->
Disciplina	514.22 514/.22
Soggetti	Low-dimensional topology Quantum field theory Algebraic topology Field theory (Physics) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Papers from a memorial conference in honor of Xiao-Song Lin, organized by the Chern Institute of Mathematics and held in Tianjin, July 27-31, 2007.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Foreword; Preface; Short Biography of Lin; Mathematics of Lin; Organizing Committees; List of Participants; Program; Welcome Speech of Weiping Zhang; Speech of Boju Jiang; CONTENTS; Part A Invited Contributions; The Modified Calabi-Yau Problems for CR-manifolds J. Cao and S.-C. Chang; 0. Introduction; 1. Bounded solutions to $d =$ on manifolds with negative curvature; 2. The modified Calabi-Yau problems for singular spaces and CR-manifolds; A. Sup-harmonic functions on Alexandrov spaces with nonnegative sectional curvature B. The generalized Calabi problems for Kahler domains with boundaries C. The Calabi-Escobar type problem for Kahler domains with boundaries; Acknowledgments; References; On Picture (2+1)-TQFTs M.

Freedman, C. Nayak, K. Walker and Z. Wang; 1. Introduction; 2. Jones representations; 2.1. Braid statistics; 2.2. Generic Jones representation of the braid groups; 2.3. Unitary Jones representations; 2.4. Uniqueness of Jones-Wenzl projectors; 3. Diagram TQFTs for closed manifolds; 3.1. "d-isotopy", local relation, and skein relation; 3.2. Picture classes; 3.3. Skein classes; 3.4. Recoupling theory 3.5. Handles and S-matrix 3.6. Diagram TQFTs for closed manifolds; 3.7. Boundary conditions for picture TQFTs; 3.8. Jones-Kauffman skein spaces; 4. Morita equivalence and cut-paste topology; 4.1. Bimodules over picture category; 4.2. Cutting and paste as Morita equivalence; 4.3. Annularization and quantum double; 5. Temperley-Lieb-Jones categories; 5.1. Annular Markov trace; 5.2. Representation of Temperley-Lieb-Jones categories; 5.3. Rectangular Temperley-Lieb-Jones categories for low levels; 5.3.1. Level=1, $d_2 = 1$; 5.3.2. Level=2, $d_2 = 2$; 5.3.3. Level=3, $d_2 = 1 + d$ or $d_2 = 1$ 5.4. Annular Temperley-Lieb-Jones theories for low levels 5.4.1. Level=1, $d_2 = 1$; 5.4.2. Level=2, $d_2 = 2$; 5.4.3. Level=3, $d_2 = 1 + d$ or $d_2 = 1$; 5.5. Temperley-Lieb-Jones categories for primitive 4th roots of unity; 5.6. Temperley-Lieb-Jones categories for primitive 2nd root of unity, d_2 ; 6. The definition of a TQFT; 6.1. Redefined labels for TQFTs; 6.2. Anomaly of TQFTs and extended manifolds; 6.3. Axioms for TQFTs; 6.4. More consequences of the axioms; 6.5. Framed link invariants and modular representation; 6.6. Verlinde algebras and Verlinde formulas 7. Diagram and Jones-Kauffman TQFTs 7.1. Diagram TQFTs; 7.2. Jones-Kauffman TQFTs; 8. WRT and Turaev-Viro $SU(2)$ -TQFTs; 8.1. Flagged TLJ categories; 8.2. Turaev-Viro Unitary TQFTs; 8.3. WRT Unitary TQFTs; 9. Black-White TQFTs; 9.1. Black-white TLJ categories; 9.2. Labels for black-white theories; 9.2.1. Level=2, $d_2 = 2$; 9.2.2. Level=3; 9.3. BW TQFTs; 10. Classification and Unitarity; 10.1. Classification of diagram local relations; 10.2. Unitary TQFTs; 10.3. Classification and unitarity; Appendix A. Topological phases of matter; Ground states manifolds as modular functors Elementary excitations as particles

Sommario/riassunto

This unique volume, resulting from a conference at the Chern Institute of Mathematics dedicated to the memory of Xiao-Song Lin, presents a broad connection between topology and physics as exemplified by the relationship between low-dimensional topology and quantum field theory. The volume includes works on picture $(2+1)$ -TQFTs and their applications to quantum computing, Berry phase and Yang-Baxterization of the braid relation, finite type invariant of knots, categorification and Khovanov homology, Gromov-Witten type invariants, twisted Alexander polynomials, Faddeev knots, generalized Ricci flow

2. Record Nr.	UNINA9910973128203321
Titolo	Rectal cancer : etiology, pathogenesis and treatment // Paula Wells and Regina Halstead, editors
Pubbl/distr/stampa	New York, : Nova Biomedical Books, c2009
ISBN	1-61209-401-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (274 p.)
Altri autori (Persone)	WellsPaula HalsteadRegina
Disciplina	616.99/435
Soggetti	Rectum - Cancer - Etiology Rectum - Cancer - Treatment
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Errata slip inserted.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Surgical treatment of rectal cancer-current controversies / I.D. Vilcea and I. Vasile -- The effect of adjuvant therapy on surgical treatment of rectal cancer / Luca Stocchi and Victor W. Fazio -- Three-dimensional endorectal ultrasonography in rectal cancer staging / G.A. Santoro, S. Magrini and L. Cancian -- Transanal endoscopic microsurgery (TEM) in early rectal cancer / A. Suppiah and J.R.T. Monson -- Staging and treatment of early rectal cancer / G. Baatrup and P. Pfeiffer -- Transanal endoscopic microsurgery of rectal tumor : a review / Damian Casadesus -- Correlation between metabolic enzymes of nucleic acid in colorectal cancer patients and FRNA/T5IR, prognostic factors / Kenji Katsumata ... [et al.] -- Germline and somatic mutations in colorectal cancers from patients with hereditary nonpolyposis colorectal cancer / Michiko Miyaki, Tatsuro Yamaguchi and Takeo Mori -- Women and colorectal cancer / Samantha Hendren -- Dietary fatty acids and Acyl-CoA synthetases in the modifier concept of colorectal carcinogenesis / Nikolaus Gassler ... [et al.] -- Risk factors of local recurrence after curative resection in patients with middle and lower rectal carcinoma / Wu Ze-yu ... [et al.] -- CT-guided interstitial brachytherapy as an innovative adjunct to current therapeutic strategies in the treatment of colorectal liver metastases / Christian Grieser, Dirk Schnapauff and Timm Denecke.

Sommario/riassunto

Current controversies about rectal cancer treatment are examined and discussed in this book. In particular, oncologic outcomes, which claim an aggressive approach over the primary tumor, lymph nodes and distant metastasis. Also, the functional outcome, whose important objective is to preserve the anal sphincter and the preservation of the pelvic nervous plexus. Radical resection with total mesorectal excision is the mainstay of rectal cancer treatment. However, it is associated with significant surgical morbidity/mortality, possible stoma surgery/complications and long-term gastrointestinal dysfunction with deterioration in quality of life. This book also explores the risk factors of local recurrence after curative resection in patients with middle and lower rectal carcinoma. The relationships between mesorectal metastasis and local recurrence and the possible correlations between circumferential resection margin status and local recurrence were identified. The relationships between local recurrence and clinicopathologic characteristics of middle and lower rectal carcinoma were also evaluated.

3. Record Nr.	UNINA9910254021903321
Titolo	Advances in Solid and Hazardous Waste Management // edited by Sudha Goel
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-57076-5
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (370 pages) : illustrations
Collana	Advances in Solid and Hazardous Waste Management
Disciplina	363.728
Soggetti	Waste management Remote sensing Pollution prevention Natural disasters Waste Management/Waste Technology Remote Sensing/Photogrammetry Industrial Pollution Prevention Natural Hazards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico

Monografia

Nota di bibliografia

Includes bibliographical references at the end of each chapters and index.

Nota di contenuto

1. Solid and Hazardous Waste Management: An Introduction -- 2. Moving Towards a Circular Economy in Solid Waste Management: Concepts and Practices -- 3. Institutional Waste Management -- 4. Scientific Approach for Municipal Solid Waste Characterization -- 5. Characterization of Municipal Solid Waste (MSW): Global Trends -- 6. Applications of Remote Sensing and Geographical Information System (GIS) in Assimilation of Environmental Data -- 7. Applications of Remote Sensing and GIS in Solid Waste Management –A Review -- 8. Environmental Impacts of Pond Ash Dumping at Kolaghat Thermal Power Plant (KTTP) – Physico-chemical Characterization of Pond Ash -- 9. Leaching Behaviour of Pond Ash -- 10. WQI, DRASTIC and Contaminant Transport Modelling Using WiscLEACH 2.0 -- 11. Degradation of Plastics -- 12. Electronic Waste (E-waste) Generation and Management -- 13. Survey of Municipal Solid Waste (MSW) Treatment Methods and Compost Samples -- 14. Development and Application of a Multi-Criteria Decision Making (MCDM) Tool for Solid Waste Management: Kolkata as a Case Study -- 15. Fundamentals of Microbiology -- Appendix A: USEPA—RCRA’s Chemical Waste Compatibility List -- Appendix B: Environmental Regulations in India -- Appendix C: Country-wise E-waste generation rates (ordered from highest to lowest by kg/person-y) -- Index.

Sommario/riassunto

This book presents reviews, examples and case studies of innovative applications in solid and hazardous waste management. The economics of waste management have since become a significant research area in their own right, and two chapters address these issues. In addition, dedicated chapters cover specific categories of waste such as biomedical and institutional waste, plastics and e-waste. The book subsequently discusses newer analytical methods like SEM, EDX, XRD and optical microscopy, along with selected “older” methods for sampling and characterizing different types of waste. The various applications of mathematical tools like linear optimization, various software/models like WISCLeach, and DRASTIC, and tools like remote sensing and GIS are illustrated in many of the chapters. Lastly, since composting is one of the most popular treatment methods for managing the organic component of municipal solid waste, the book provides an overview of composting and the fundamentals of microbiology that are essential to understanding waste-related biological processes. The book was primarily written for students and practitioners in the field who are already familiar with the basics. All chapters were prepared by practicing experts and scholars in the field, and are intended to help readers better understand and apply these principles and practices in their own endeavours. Key topics covered in the book:

- The circular economy and the economics of solid waste management
- Various remote sensing and GIS applications for managing municipal solid waste, coal fires in mines, changes in land use and land cover in industrial areas, etc.
- Treatment and management of different types of solid waste: institutional (including biomedical), residential, e-waste, plastic, and ash from thermal power plants
- Sampling and characterization of municipal waste and compost
- Fundamentals of microbiology
- Overview of environmental regulations, especially those pertaining to solid and hazardous waste management.

