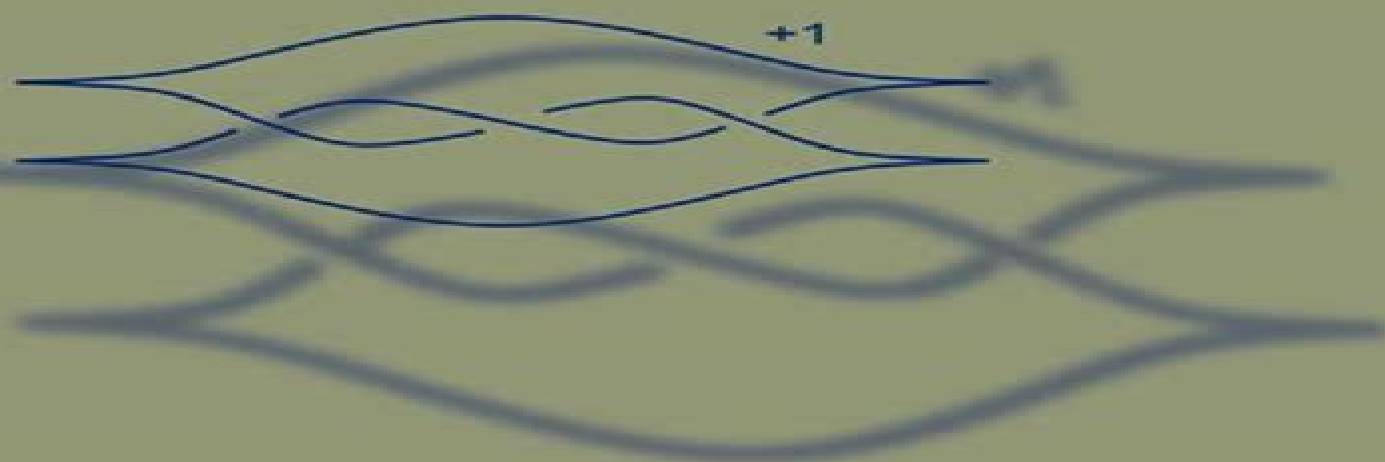


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# Surgery on Contact 3-Manifolds and Stein Surfaces



 Springer



# Surgery On Contact 3manifolds And Stein Surfaces

**Franz Forstnerič**



## **Surgery On Contact 3-manifolds And Stein Surfaces:**

**Surgery on Contact 3-Manifolds and Stein Surfaces** Burak Ozbagci, 2004 This book is about an investigation of recent developments in the field of symplectic and contact structures on four and three dimensional manifolds respectively from a topologist's point of view The level of the book is appropriate for advanced graduate students *Surgery on Contact 3-Manifolds and Stein Surfaces* Burak Ozbagci, András Stipsicz, 2014-01-15 This book is about an investigation of recent developments in the field of symplectic and contact structures on four and three dimensional manifolds from a topologist's point of view In it two main issues are addressed what kind of symplectic and contact structures we can construct via surgery theory and what kind of symplectic and contact structures are not allowed via gauge theory and the newly invented Heegaard Floer theory *Surgery on Contact 3-Manifolds and Stein Surfaces* Burak Ozbagci, András Stipsicz, 2013-03-09 The groundbreaking results of the near past Donaldson's result on Lefschetz pencils on symplectic manifolds and Giroux's correspondence between contact structures and open book decompositions brought a topological flavor to global symplectic and contact geometry This topological aspect is strengthened by the existing results of Weinstein and Eliashberg and Gompf in dimension 4 on handle attachment in the symplectic and Stein category and by Giroux's theory of convex surfaces enabling us to perform surgeries on contact 3-manifolds The main objective of these notes is to provide a self-contained introduction to the theory of surgeries one can perform on contact 3-manifolds and Stein surfaces We will adopt a very topological point of view based on handlebody theory in particular on Kirby calculus for 3 and 4 dimensional manifolds Surgery is a constructive method by its very nature Applying it in an intricate way one can see what can be done These results are nicely complemented by the results relying on gauge theory a theory designed to prove that certain things cannot be done We will freely apply recent results of gauge theory without a detailed introduction to these topics we will be content with a short introduction to some forms of Seiberg Witten theory and some discussions regarding Heegaard Floer theory in two Appendices *Lectures on Contact 3-Manifolds, Holomorphic Curves and Intersection Theory* Chris Wendl, 2020-03-26 An accessible introduction to the intersection theory of punctured holomorphic curves and its applications in topology *Global Differential Geometry* Christian Bär, Joachim Lohkamp, Matthias Schwarz, 2011-12-18 This volume contains a collection of well written surveys provided by experts in Global Differential Geometry to give an overview over recent developments in Riemannian Geometry Geometric Analysis and Symplectic Geometry The papers are written for graduate students and researchers with a general interest in geometry who want to get acquainted with the current trends in these central fields of modern mathematics **Weinstein Handlebodies for Complements of Smoothed Toric Divisors** Bahar Acu, Orsola Capovilla-Searle, Agnès Gadbled, Aleksandra Marinković, Emmy Murphy, Laura Starkston, Angela Wu, 2025-05-16 View the abstract *Stein Manifolds and Holomorphic Mappings* Franc Forstnerič, 2011-08-27 The main theme of this book is the homotopy principle for holomorphic mappings from Stein manifolds to the newly introduced class of Oka manifolds The book

contains the first complete account of Oka Grauert theory and its modern extensions initiated by Mikhail Gromov and developed in the last decade by the author and his collaborators Included is the first systematic presentation of the theory of holomorphic automorphisms of complex Euclidean spaces a survey on Stein neighborhoods connections between the geometry of Stein surfaces and Seiberg Witten theory and a wide variety of applications ranging from classical to contemporary

**Normal Surface Singularities** András Némethi, 2022-10-07 This monograph provides a comprehensive introduction to the theory of complex normal surface singularities with a special emphasis on connections to low dimensional topology In this way it unites the analytic approach with the more recent topological one combining their tools and methods In the first chapters the book sets out the foundations of the theory of normal surface singularities This includes a comprehensive presentation of the properties of the link as an oriented 3 manifold and of the invariants associated with a resolution combined with the structure and special properties of the line bundles defined on a resolution A recurring theme is the comparison of analytic and topological invariants For example the Poincaré series of the divisorial filtration is compared to a topological zeta function associated with the resolution graph and the sheaf cohomologies of the line bundles are compared to the Seiberg Witten invariants of the link Equivariant Ehrhart theory is introduced to establish surgery additivity formulae of these invariants as well as for the regularization procedures of multivariable series In addition to recent research the book also provides expositions of more classical subjects such as the classification of plane and cuspidal curves Milnor fibrations and smoothing invariants the local divisor class group and the Hilbert Samuel function It contains a large number of examples of key families of germs rational elliptic weighted homogeneous superisolated and splice quotient It provides concrete computations of the topological invariants of their links Casson Walker and Seiberg Witten invariants Turaev torsion and of the analytic invariants geometric genus Hilbert function of the divisorial filtration and the analytic semigroup associated with the resolution The book culminates in a discussion of the topological and analytic lattice cohomologies as categorifications of the Seiberg Witten invariant and of the geometric genus respectively and of the graded roots Several open problems and conjectures are also formulated

**Normal Surface Singularities** provides researchers in algebraic and differential geometry singularity theory complex analysis and low dimensional topology with an invaluable reference on this rich topic offering a unified presentation of the major results and approaches

**Advances in Mathematical Sciences** Bahar Acu, Donatella Danielli, Marta Lewicka, Arati Pati, Saraswathy RV, Miranda Teboh-Ewungkem, 2020-07-16 This volume highlights the mathematical research presented at the 2019 Association for Women in Mathematics AWM Research Symposium held at Rice University April 6-7 2019 The symposium showcased research from women across the mathematical sciences working in academia government and industry as well as featured women across the career spectrum undergraduates graduate students postdocs and professionals The book is divided into eight parts opening with a plenary talk and followed by a combination of research paper contributions and survey papers in the different areas of mathematics

represented at the symposium algebraic combinatorics and graph theory algebraic biology commutative algebra analysis probability and PDEs topology applied mathematics mathematics education     Non-Kähler Complex Surfaces and Strongly Pseudoconcave Surfaces Naohiko Kasuya, 2025-03-14 The main themes of this book are non Kähler complex surfaces and strongly pseudoconcave complex surfaces Though there are several notable examples of compact non Kähler surfaces including Hopf surfaces Kodaira surfaces and Inoue surfaces these subjects have been regarded as secondary to Kähler manifolds and strongly pseudoconvex manifolds Recently however the existence of uncountably many non Kähler complex structures on the 4 dimensional Euclidean space has been shown by Di Scala Kasuya and Zuddas through their construction Furthermore Kasuya and Zuddas handlebody construction reveals that strongly pseudoconcave surfaces have flexibility with respect to both four dimensional topology and boundary contact structures These constructions are based on the knowledge of differential topology and contact geometry and provide examples of fruitful applications of these areas to complex geometry Thus for especially non compact non Kähler complex surfaces and strongly pseudoconcave complex surfaces it is not an exaggeration to say that the research is still in its infancy with numerous areas yet to be explored and expected to develop in the future

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Surgery On Contact 3manifolds And Stein Surfaces**

In a global inundated with displays and the cacophony of instantaneous interaction, the profound energy and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the regular barrage of noise and distractions. However, nestled within the musical pages of **Surgery On Contact 3manifolds And Stein Surfaces**, a fascinating function of fictional elegance that pulses with fresh thoughts, lies an unforgettable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this enchanting opus guides viewers on a mental odyssey, delicately revealing the latent possible and profound influence stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key subjects, dissect its interesting publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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