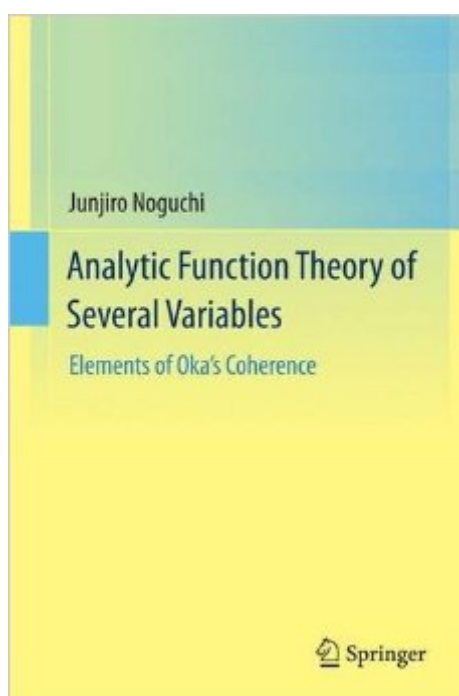


The book was found

Analytic Function Theory Of Several Variables: Elements Of Oka's Coherence



Synopsis

The purpose of this book is to present the classical analytic function theory of several variables as a standard subject in a course of mathematics after learning the elementary materials (sets, general topology, algebra, one complex variable). This includes the essential parts of Grauert's two volumes, GL227(236) (Theory of Stein spaces) and GL265 (Coherent analytic sheaves) with a lowering of the level for novice graduate students (here, Grauert's direct image theorem is limited to the case of finite maps). The core of the theory is "Oka's Coherence", found and proved by Kiyoshi Oka. It is indispensable, not only in the study of complex analysis and complex geometry, but also in a large area of modern mathematics. In this book, just after an introductory chapter on holomorphic functions (Chap. 1), we prove Oka's First Coherence Theorem for holomorphic functions in Chap. 2. This defines a unique character of the book compared with other books on this subject, in which the notion of coherence appears much later. The present book, consisting of nine chapters, gives complete treatments of the following items: Coherence of sheaves of holomorphic functions (Chap. 2); Oka's Cartan's Fundamental Theorem (Chap. 4); Coherence of ideal sheaves of complex analytic subsets (Chap. 6); Coherence of the normalization sheaves of complex spaces (Chap. 6); Grauert's Finiteness Theorem (Chaps. 7, 8); Oka's Theorem for Riemann domains (Chap. 8). The theories of sheaf cohomology and domains of holomorphy are also presented (Chaps. 3, 5). Chapter 6 deals with the theory of complex analytic subsets. Chapter 8 is devoted to the applications of formerly obtained results, proving Cartan's Serre's Theorem and Kodaira's Embedding Theorem. In Chap. 9, we discuss the historical development of "Coherence". It is difficult to find a book at this level that treats all of the above subjects in a completely self-contained manner. In the present volume, a number of classical proofs are improved and simplified, so that the contents are easily accessible for beginning graduate students.

Book Information

Hardcover: 397 pages

Publisher: Springer; 1st ed. 2016 edition (August 18, 2016)

Language: English

ISBN-10: 9811002894

ISBN-13: 978-9811002892

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,168,258 in Books (See Top 100 in Books) #345 in Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry #394 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Abstract #1240 in Books > Textbooks > Science & Mathematics > Mathematics > Geometry

[Download to continue reading...](#)

Analytic Function Theory of Several Variables: Elements of Oka's Coherence Functions of Several Real Variables Holt McDougal Accelerated Coordinate Algebra/Analytic Geometry A Georgia: Student Workbook Coordinate Algebra/Analytic Geometry A Learn VBA Fast, Vol. III: Excel function design course, with practice exercises (The VBA Function Design Course Book 3) Anatomy & Physiology: The Unity of Form and Function: Anatomy & Physiology: The Unity of Form and Function IEC 60947-5-5 Ed. 1.1 b:2005, Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function The Cache Coherence Problem in Shared-Memory Multiprocessors: Software Solutions (Systems) The Taking Action Guide to Building Coherence in Schools, Districts, and Systems The Coherence of Theism: Second Edition (Clarendon Library of Logic and Philosophy) Coherence and Statistics of Photons and Atoms Node JS: Learn Node In The Most Simple and Effective Way Possible. Learn to use Node in several ways.: With Events, Async Functions, API calls, Push Notifications, Command Line Input, Web Server ISO 3951-1:2005, Sampling procedures for inspection by variables - Part 1: Specification for single sampling plans indexed by acceptance quality limit ... quality characteristic and a single AQL A tour through the several islands of Barbadoes, St. Vincent, Antigua, Tobago, and Grenada, in the years 1791 & 1792 Morning Exercises at Cripplegate [Ed. by S. Annesley] St. Giles in the Fields [Ed. by T. Case] and in Southwark [Ed. by N. Vincent] Sermons Preached A.D. 1659-1689, by Several Ministers of the Gospel Free Books for Lovers of Private Letters, Diaries and Journals: Discover the Private Thoughts of Several Greats of the Past (Free Books For a Quick Download Book 4) Probability, Random Variables and Stochastic Processes Schaum's Outline of Complex Variables 2nd (second) edition Text Only Complex Variables: Second Edition (Dover Books on Mathematics) Stochastic Models, Information Theory, and Lie Groups, Volume 2: Analytic Methods and Modern Applications (Applied and Numerical Harmonic Analysis) The Encyclopedia of Crystals, Herbs, and New Age Elements: An A to Z Guide to New Age Elements and How to Use Them

[Dmca](#)