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При составлении сборника авторы опирались на многолетний опыт работы со студентами Московского физико-технического института. Включены задачи по следующим разделам курса математического анализа: дифференциальное исчисление функций нескольких переменных; кратные, криволинейные и поверхностные интегралы; векторный анализ, интегралы, зависящие от параметров; элементы функционального анализа. Сборник является продолжением двух уже изданных книг тех же авторов: «Сборник задач по математическому анализу. Предел. Непрерывность. Дифференцируемость» (М.: Наука, 1984) и «Сборник задач по математическому анализу. Интегралы. Ряды» (М.: Наука, 1986).

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ОГЛАВЛЕНИЕ

Предисловие 4

Глава I. Дифференциальное исчисление функций нескольких переменных 5
§ 1. Различные типы множеств в n-мерном пространстве 5
§ 2. Функции нескольких переменных. Предел и непрерывность функций нескольких переменных. Отображения 18
§ 3. Частные производные. Дифференцируемые функции нескольких переменных. Дифференцируемые отображения 43
§ 4. Частные производные и дифференциалы высших порядков. Формула Тейлора и ряд Тейлора 72
§ 5. Экстремумы функций 92
§ 6. Геометрические приложения 108

Глава II. Кратные, криволинейные и поверхностные интегралы 122
§ 7. Мера Жордана. Измеримые множества 122
§ 8. Кратный интеграл Римана и его свойства 134
§ 9. Геометрические и физические приложения кратных интегралов 214
§ 10. Криволинейные интегралы 234
§ 11. Поверхностные интегралы 257
§ 12. Скалярные и векторные поля 275

Глава III. Интегралы, зависящие от параметра. Интеграл Фурье. Преобразование Фурье 302
§ 13. Собственные интегралы, зависящие от параметра 302
§ 14. Равномерная сходимость несобственных интегралов, зависящих от параметра 312
§ 15. Дифференцирование и интегрирование по параметру несобственных интегралов 323
§ 16. Эйлеровы и некоторые другие интегралы 338
§ 17. Интеграл Фурье. Преобразование Фурье 348

Глава IV. Введение в функциональный анализ 356
§ 18. Метрические пространства 356
§ 19. Нормированные и полунормированные пространства 382
§ 20. Гильбертовы пространства 411
§ 21. Топологические пространства. Обобщенные функции 427

Ответы 448

Список литературы 491

Список формул 492

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Table of Contents Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1

1. Understanding the eBook Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
    - The Rise of Digital Reading Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
    - Advantages of eBooks Over Traditional Books
2. Identifying Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1

- User-Friendly Interface

4. Exploring eBook Recommendations from Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
   - Personalized Recommendations
   - Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 User Reviews and Ratings
   - Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 and Bestseller Lists
5. Accessing Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 Free and Paid eBooks
   - Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 Public Domain eBooks
   - Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 eBook Subscription Services
   - Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 Budget-Friendly Options
6. Navigating Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 eBook Formats
   - ePub, PDF, MOBI, and More
   - Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 Compatibility with Devices
   - Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
   - Highlighting and Note-Taking Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
   - Interactive Elements Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
8. Staying Engaged with Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
9. Balancing eBooks and Physical Books Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
    - Setting Reading Goals Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1

- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
    - Fact-Checking eBook Content of Regiony Robii Informatsionnostatisticheskii Sbornik 19901995 Tom 1
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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