

Real Analysis - Homework solutions

Chris Monico, May 2, 2013

1.1 (a) Rings (resp. σ -rings) are closed under finite (resp. countable) intersections.

(b) If \mathcal{R} is a ring (resp. σ -ring) then \mathcal{R} is an algebra (resp. σ -algebra) iff $X \in \mathcal{R}$.

(c) If \mathcal{R} is a (nonempty) σ -ring then $\{E \subset X : E \in \mathcal{R} \text{ or } E^c \in \mathcal{R}\}$ is a σ -algebra.

(d) If \mathcal{R} is a σ -ring, then $\{E \subset X : E \cap F \in \mathcal{R} \text{ for all } F \in \mathcal{R}\}$ is a σ -algebra.

Solution:

(a) If \mathcal{R} is a ring and $E_1, E_2 \in \mathcal{R}$, then since \mathcal{R} is closed under differences, $E_1 - (E_1 - E_2) \in \mathcal{R}$. But

$$E_1 - (E_1 - E_2) = E_1 - (E_1 \cap E_2^c) = E_1 \cap (E_1^c \cup E_2) = E_1 \cap E_2.$$

It follows inductively that \mathcal{R} is closed under finite intersections. Suppose now that \mathcal{R} is a σ -ring and $\{E_n\} \subset \mathcal{R}$. Let $A = \bigcup E_j$ and $\widetilde{E}_n = A - E_n$. Then $\widetilde{E}_n \in \mathcal{R}$ for all $n \geq 1$ and so $F = E_1 - \bigcup_{j=2}^{\infty} \widetilde{E}_j$ is also in \mathcal{R} . But

$$F = E_1 \cap \left(\bigcap_{j=2}^{\infty} \widetilde{E}_j^c \right) = E_1 \cap \left(\bigcap_{j=2}^{\infty} (A^c \cup E_j) \right) = \bigcap_{j=2}^{\infty} ((E_1 \cap A^c) \cup (E_1 \cap E_j)) = \bigcap_{j=2}^{\infty} (E_1 \cap E_j) = \bigcap_{j=1}^{\infty} E_j.$$

(b) If \mathcal{R} is a ring (resp. σ -ring) and $X \in \mathcal{R}$, then for all $E \in \mathcal{R}$ we have $E^c = X - E \in \mathcal{R}$ so \mathcal{R} is closed under complements and therefore an algebra (resp. σ -algebra). On the other hand if \mathcal{R} is an algebra (resp. σ -algebra), then it's nonempty so there exists $E \in \mathcal{R}$ and hence $X = E \cup E^c \in \mathcal{R}$.

(c) Suppose \mathcal{R} is a nonempty σ -ring and $\mathcal{M} = \{E \subset X : E \in \mathcal{R} \text{ or } E^c \in \mathcal{R}\}$. Clearly \mathcal{M} is closed under complements. Suppose that $\{E_n\} \subset \mathcal{M}$. By part (a), \mathcal{R} is closed under countable intersections so $A = \bigcap_{\substack{j \geq 1 \\ E_j^c \in \mathcal{R}}} E_j^c \in \mathcal{R}$. Since \mathcal{R} is closed under countable unions, $B = \bigcup_{\substack{j \geq 1 \\ E_j \in \mathcal{R}}} E_j \in \mathcal{R}$. Now

$$\begin{aligned} \bigcup_{j \geq 1} E_j &= \left(\bigcup_{\substack{j \geq 1 \\ E_j^c \in \mathcal{R}}} E_j \right) \cup \left(\bigcup_{\substack{j \geq 1 \\ E_j \in \mathcal{R}}} E_j \right) \\ &= \left(\left(\bigcap_{\substack{j \geq 1 \\ E_j^c \in \mathcal{R}}} E_j^c \right) \cap \left(\bigcup_{\substack{j \geq 1 \\ E_j \in \mathcal{R}}} E_j \right) \right)^c \\ &= (A - B)^c. \end{aligned}$$

Since $A, B \in \mathcal{R}$ and \mathcal{R} is closed under differences, $A - B \in \mathcal{R}$, hence $\bigcup E_j = (A - B)^c \in \mathcal{M}$. Therefore \mathcal{M} is also closed under countable unions, hence it's a σ -algebra.

(d) Suppose \mathcal{R} is a σ -ring and $\mathcal{A} = \{E \subset X : E \cap F \in \mathcal{R} \text{ for all } F \in \mathcal{R}\}$. Suppose $E \in \mathcal{A}$ and let $F \in \mathcal{R}$. Then $E \cap F \in \mathcal{R}$ and since \mathcal{R} is closed under differences, $E^c \cap F = F - E = F - (E \cap F) \in \mathcal{R}$, and therefore \mathcal{A} is closed under complements. If $\{E_n\} \subset \mathcal{A}$ and $F \in \mathcal{R}$ then $E_n \cap F \in \mathcal{R}$ and so $(\bigcup E_n) \cap F = \bigcup (E_n \cap F) \in \mathcal{R}$ for all n , so \mathcal{A} is closed under countable unions as well and therefore is a σ -algebra.

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The American Mathematical Monthly, 1894 Includes articles as well as notes and other features about mathematics and the profession

A Passage to Modern Analysis William J. Terrell, 2019-10-21 A Passage to Modern Analysis is an extremely well written and reader friendly invitation to real analysis An introductory text for students of mathematics and its applications at the advanced undergraduate and beginning graduate level it strikes an especially good balance between depth of coverage and accessible exposition The examples problems and exposition open up a student's intuition but still provide coverage of deep areas of real analysis A yearlong course from this text provides a solid foundation for further study or application of real analysis at the graduate level A Passage to Modern Analysis is grounded solidly in the analysis of \mathbb{R} and \mathbb{R}^n but at appropriate points it introduces and discusses the more general settings of inner product spaces normed spaces and metric spaces The last five chapters offer a bridge to fundamental topics in advanced areas such as ordinary differential equations Fourier series and partial differential equations Lebesgue measure and the Lebesgue integral and Hilbert space Thus the book introduces interesting and useful developments beyond Euclidean space where the concepts of analysis play important roles and it prepares readers for further study of those developments

Problems And Solutions In Real Analysis (Second Edition) Masayoshi Hata, 2016-12-12 This second edition

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Mathematics and statistics Xerox University Microfilms,1973 *Problems in Real Analysis* Charalambos D. Aliprantis,Owen Burkinshaw,1999 This volume aims to teach the basic methods of proof and problem solving by presenting the complete solutions to over 600 problems that appear in the companion Principles of Real Analysis 3rd edition

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A Complete Solution Guide to Real and Complex Analysis II Kit-Wing Yu,2021-04-05 This is a complete solution guide to all exercises from Chapters 10 to 20 in Rudin s Real and Complex Analysis The features of this book are as follows It covers all the 221 exercises from Chapters 10 to 20 with detailed and complete solutions As a matter of fact my solutions show every detail every step and every theorem that I applied There are 29 illustrations for explaining the mathematical concepts or ideas used behind the questions or theorems Sections in each chapter are added so as to increase the readability of the exercises Different colors are used frequently in order to highlight or explain problems lemmas remarks main points formulas involved or show the steps of manipulation in some complicated proofs ebook only Necessary lemmas with proofs are provided because some questions require additional mathematical concepts which are not covered by Rudin Many useful or relevant references are provided to some questions for your future research

Problems in Real Analysis Charambolos D. Aliprantis,1999

A Complete Solution Guide to Complex Analysis Kit-Wing Yu,2020-01-19 This is a complete solution guide to all exercises in Bak and Newman s Complex Analysis The features of this book are as follows It covers all the 300 exercises with detailed and complete solutions There are 34 illustrations for explaining the mathematical concepts or ideas used behind the questions or theorems Different colors are used in order to highlight or explain problems lemmas remarks main points formulas involved or show the steps of manipulation in some complicated proofs ebook only Necessary lemmas with proofs are provided Useful or relevant references are provided to some questions for interested readers

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Exercises in Analysis Leszek Gasiński,Nikolaos S. Papageorgiou,2014-07-26 Exercises in Analysis will be published in two volumes This first volume covers problems in five core topics of mathematical analysis metric spaces topological spaces measure integration and Martingales measure and topology and functional analysis Each of five topics correspond to a different chapter with inclusion of the basic theory and accompanying main definitions and results followed by suitable comments and remarks for better understanding of the material At least 170 exercises problems are presented for each topic with solutions available at the end of each chapter The

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