Exercise Solutions to Real Analysis

Note: References refer to H. L. Royden, "Real Analysis"

Exersize 1. Given any set A and any $\epsilon > 0$, there is an open set O such that $A \subset O$ and $m^*O \leq m^*A + \epsilon$.

Solution 1. If $m^*A = \infty$, then there is nothing to prove (take $O = \mathbb{R}$). Suppose now that $\epsilon > 0$ is given and $m^*A < \infty$. By definition, we have,

$$m^*A = \inf\left\{ \sum_{n \in \mathbb{N}} l(a_n, b_n) : A \subset \cup_{n \in \mathbb{N}}(a_n, b_n) \right\}$$

So, by approximation for infima, we know that there exist $(a_n, b_n) \subset \mathbb{R}$ such that $A \subset \cup_{n \in \mathbb{N}}(a_n, b_n)$ and

$$\sum_{n \in \mathbb{N}} l(a_n, b_n) \leq m^*A + \epsilon$$

So take $O = \cup_{n \in \mathbb{N}}(a_n, b_n)$. Then O is open, $A \subset O$ and by subadditivity we have:

$$m^*O \leq \sum_{n \in \mathbb{N}} l(a_n, b_n) \leq m^*A + \epsilon$$

Exersize 2. Suppose $A, B \subset \mathbb{R}$ and $m^*A = 0$, then $m^*(A \cup B) = m^*B$

Solution 2. We have from subadditivity,

$$m^*B \leq m^*(A \cup B) \leq m^*A + m^*B = 0 + m^*B = m^*B$$

The result follows.

Exersize 3. If A is measurable then, for every $\epsilon > 0$, there is an open set O containing A such that $m(O \setminus A) < \epsilon$

Solution 3. Suppose that $\epsilon > 0$ is given. Then we know by problem 1 that there is an open set O containing A such that $m^*O < m^*A + \epsilon$. In particular, since A is measurable and O is open (hence also measurable) we may replace m^* with m: $mO - mA < \epsilon$. On the other hand, by measurability of A and the identities $O \setminus A = O \cap A^c$, $O \cap A = A$ we get:

$$m(O) = m(A \cap O) + m(A^c \cap O) = m(A) + m(O \setminus A)$$

So $\epsilon > m(O) - m(A) = m(O \setminus A)$

Exersize 4. If A is measurable then, for every $\epsilon > 0$, there is a closed set C contained in A such that $m(A \setminus C) < \epsilon$

Real Analysis For Graduate Students Solutions Manual

Yicheng Fang

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Anderson,Timothée L. Pourpoint,R. Joseph Cassady,2019-02-07 A modern pedagogical treatment of the latest industry trends in rocket propulsion developed from the authors extensive experience in both industry and academia Students are guided along a step by step journey through modern rocket propulsion beginning with the historical context and an introduction to top level performance measures and progressing on to in depth discussions of the chemical aspects of fluid flow combustion thermochemistry and chemical equilibrium solid liquid and hybrid rocket propellants mission requirements and an overview of electric propulsion With a wealth of homework problems and a solutions manual for instructors online real life case studies and examples throughout and an appendix detailing key numerical methods and links to additional online resources this is a must have guide for senior and first year graduate students looking to gain a thorough understanding of the topic along with practical tools that can be applied in industry   Model-Reference Adaptive Control Nhan T. Nguyen,2018-03-01 This textbook provides readers with a good working knowledge of adaptive control theory through applications It is intended for students beginning masters or doctoral courses and control practitioners wishing to get up to speed in the subject expeditiously Readers are taught a wide variety of adaptive control techniques starting with simple methods and extending step by step to more complex ones Stability proofs are provided for all adaptive control techniques without obfuscating reader understanding with excessive mathematics The book begins with standard model reference adaptive control MRAC for first order second order and multi input multi output systems Treatment of least squares parameter estimation and its extension to MRAC follow helping readers to gain a different perspective on MRAC Function approximation with orthogonal polynomials and neural networks and MRAC using neural networks are also covered Robustness issues connected withMRAC are discussed helping the student to appreciate potential pitfalls of the technique This appreciation is encouraged by drawing parallels between various aspects of robustness and linear time invariant systems wherever relevant Following on from the robustness problems is material covering robust adaptive control including standard methods and detailed exposition of recent advances in particular the author s work on optimal control modification Interesting properties of the new method are illustrated in the design of adaptive systems to meet stability margins This method has been successfully flight tested on research aircraft one of various flight control applications detailed towards the end of the book along with a hybrid adaptive flight control architecture that combines direct MRAC with least squares indirect adaptive control In addition to the applications understanding is encouraged by the use of end of chapter exercises and associated MATLAB files Readers will need no more than the standard mathematics for basic control theory such as differential equations and matrix algebra the book covers the foundations of MRAC and the necessary mathematical preliminaries   *Cyber-Risk Informatics* Mehmet Sahinoglu,2016-05-23 This book provides a scientific modeling approach for conducting metrics based quantitative risk assessments of cybersecurity vulnerabilities and threats This book provides a scientific modeling approach for conducting metrics based quantitative risk assessments of cybersecurity threats The author builds from a common understanding based

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