

Notes on the book:  
*Ash, Probability and Measure Theory,*  
*2nd edition*

Meng-Gen Tsai  
plover@gmail.com

July 31, 2022

**Contents**

<b>Chapter 1: Fundamentals of Measure and Integration Theory</b>	<b>2</b>
Problem 1.1.1. . . . .	2

## Chapter 1: Fundamentals of Measure and Integration Theory

### Problem 1.1.1.

*Establish formulas (1)-(5).*

*Formulas.*

(1) If  $A_n \uparrow A$ , then  $A_n^c \downarrow A^c$ ; If  $A_n \downarrow A$ , then  $A_n^c \uparrow A^c$ .

(2) pass

(3) pass

(4) pass

(5) pass

*Proof of (1).*

(1) pass

(2) pass

□