

# 《高等概率论》第三次作业

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1. Exercise 16 of subsection 2.6.

**证明** 根据条件 (a) 和 (b) 知,  $\forall A \in \mathcal{B}$ , 有

$$P(A) + P(A^c) = P(A \cup A^c) = P(\Omega) = 1$$

即  $P(A^c) = 1 - P(A)$ .

$\forall A_i \in \mathcal{B}$ ,  $A_i A_j = \emptyset$ ,  $i \neq j$ . 记  $A = (\sum_{i=1}^{\infty} A_i)$ , 则  $\sum_{i=1}^{\infty} A_i = \Omega$ . 故根据条件 (c) 有:

$$\sum_{i=1}^{\infty} P(A_i) = 1$$

于是,

$$\sum_{i=1}^{\infty} P(A_i) = 1 - P(A^c) = 1 - P(\sum_{i=1}^{\infty} A_i)^c = 1 - [1 - P(\sum_{i=1}^{\infty} A_i)] = P(\sum_{i=1}^{\infty} A_i)$$

故  $P$  满足  $\sigma$ -可加性, 因此是一个概率测度.

2. Exercise 23 of subsection 2.6.

**证明** (a) 记  $A = \{\omega \in \mathcal{R}^d : x_1 \leq \omega_1\}$ ,  $B = \{\omega \in \mathcal{R}^d : x_2 \leq \omega_2\}$ , 则  $A \in \mathcal{R}$ ,  $B \in \mathcal{R}$ .

$$A \cap B = \prod_{i=1}^2 A_i, \quad A \cap B_1 \cap B_2 \cap \dots \cap B_n = A \cap B_1 \cap B_2 \cap \dots \cap B_n,$$

$$A \cap B_1 \cap B_2 \cap \dots \cap B_n = A \cap B_1 \cap B_2 \cap \dots \cap B_n, \quad \dots, \quad A \cap B_1 \cap B_2 \cap \dots \cap B_n = A \cap B_1 \cap B_2 \cap \dots \cap B_n$$

于是

$$P_1(A \cap B) = \prod_{i=1}^2 P_1(A_i) = P_1(A) P_1(B) = (\prod_{i=1}^2 P_1(A_i)) (\prod_{i=1}^2 P_1(B_i)) = (\prod_{i=1}^2 P_1(A_i)) (\prod_{i=1}^2 P_1(B_i))$$

$$= (\prod_{i=1}^2 P_1(A_i)) [(\prod_{i=1}^2 P_1(A_i)) \cap (\prod_{i=1}^2 P_1(B_i))] = (\prod_{i=1}^2 P_1(A_i)) \{ \prod_{i=1}^2 [P_1(A_i) \cap P_1(B_i)] \}$$

$$= (\prod_{i=1}^2 P_1(A_i)) [(A_1 \cap B_1) \cup (A_1 \cap B_1^c) \cup (A_1^c \cap B_1) \cup (A_1^c \cap B_1^c)]$$

$$= (A \cap B) \cap [(A \cap B_1 \cap B_2 \cap \dots \cap B_n) \cup (A \cap B_1^c \cap B_2 \cap \dots \cap B_n) \cup \dots \cup (A \cap B_1 \cap B_2 \cap \dots \cap B_n^c)]$$

(b) 显然  $\forall \omega \in \mathcal{R}^d$ ,  $(-\infty, \omega] \in \mathcal{B}(\mathcal{R}^d) = \sigma\{[a, b] : -\infty < a \leq b < \infty, a, b \in \mathcal{R}\}$ . 因此,

$$\sigma((-\infty, \omega], \omega \in \mathcal{R}^d) \subset \mathcal{B}(\mathcal{R}^d)$$

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