

《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

$$P(A) + P(A^c) = P(A \cup A^c) = P(\mathcal{S}) = 1$$

即 $P(A^c) = 1 - P(A)$.

$\forall A_i \in \mathcal{B}$, $A_i \cap A_j = \emptyset$, $i \neq j$. 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,

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

故 P 满足 σ -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 $A \in \mathcal{R}$, 且

$$A = \cap_{i=1}^{\infty} A_i, \quad A = \cap_{i=1}^{\infty} \{x_1 \leq \omega_1, \omega_2 \leq x_2, \dots, \omega_{d-1} \leq x_{d-1}\},$$

$$A = \cap_{i=1}^{\infty} \{x_1 \leq \omega_1, \omega_2 \leq x_2, \dots, \omega_{d-1} \leq x_{d-1}\}, \quad \dots, \quad A = \cap_{i=1}^{\infty} \{x_1 \leq \omega_1, \omega_2 \leq x_2, \dots, \omega_d \leq x_d\}$$

于是

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

$$= \prod_{i=1}^d P_x(A_i) \cap \prod_{i=1}^d P_x(B_i) = \prod_{i=1}^d P_x(\{x_1 \leq \omega_1 \cap x_2 \leq \omega_2\})$$

$$= \prod_{i=1}^d P_x(\{x_1 \leq \omega_1, x_2 \leq \omega_2, \dots, x_{d-1} \leq \omega_{d-1}\} \cup \{x_1 \leq \omega_1, x_2 \leq \omega_2, \dots, x_d \leq \omega_d\})$$

$$= P_x(A \cap B) \cap (\{x_1 \leq \omega_1, x_2 \leq \omega_2, \dots, x_{d-1} \leq \omega_{d-1}\} \cup \{x_1 \leq \omega_1, x_2 \leq \omega_2, \dots, x_d \leq \omega_d\})$$

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

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

Solution Probability Path Resnick

JS Bruner



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