3 Connectedness and Compactness

3.23 Connected Spaces

Problem 3.23.1: Connectedness of X in the finer topology $\mathcal{T}'$ implies connectedness in the courser topology $\mathcal{T}$. We prove the contrapositive. Suppose there is a separation $A \cup B$ of X in $\mathcal{T}$. Then $A \cup B \in \mathcal{T} \subset \mathcal{T}'$ so X has a separation in $\mathcal{T}'$.

Problem 3.23.2: Assume $\bigcup_n A_n$ has a separation $C \cup D$. Then since each A_n is connected, either $A_n \subset C$ or $A_n \subset D$ for each n. Let k be the smallest element of $\mathbb{Z}_+$ such that $A_k \subset C$ and $A_{k+1} \subset D$. Then $A_k \cap A_{k+1} = \varnothing$, so it must be that there exists no such k. So without loss of generality, $A_n \subset C$ for each n, contradicting the fact that D is nonempty.

Problem 3.23.3: Assume $A \cup (\bigcup_\alpha A_\alpha)$ has a separation $C \cup D$. Then since each A_α is connected, either $A_\alpha \subset C$ or $A_\alpha \subset D$ for each α. Since A is connected, $A \subset C$ or $A \subset D$. Without loss of generality $A \subset C$. Then $A \cap A_\alpha = \varnothing$ for each α with $A_\alpha \subset D$. So it must be that $A_\alpha \subset C$ for each α, contradicting the fact that D is nonempty.

Problem 3.23.4: Assume $A \cup B$ is a separation of X. A and B are open, so their complements are finite. Since $B \subset X - A$, B is finite. Similarly, A is finite. But then X is the union of two finite sets and hence finite, contradicting the fact that X is infinite.

Problem 3.23.5: It is trivial to show that one-point sets are always connected, regardless of topology. Suppose X has the discrete topology and $Y \subset X$ has more than one element. If $x \in Y$, then $\{x\} \cup (Y - \{x\})$ is a separation of Y. Thus X is totally disconnected. The converse does not hold. Refer to Example 4 in Section 23 of the text.

Problem 3.23.6: We begin by noting that for all sets A, $\overline{A} = \text{int } A \cup \text{Bd } A$. Now, assume C does not intersect Bd A. Since C intersects A and $X - A$, C intersects the closures $\overline{A}$ and $\overline{X - A}$. Since $\overline{A} = \text{int } A \cup \text{Bd } A$ and $\overline{X - A} = \text{int } X - A \cup \text{Bd } A$, it follows that C intersects the closures only at the interiors. Since $X = \text{int } A \cup \text{int } X - A \cup \text{Bd } A$, it follows that $C = (C \cap \text{int } A) \cup (C \cap \text{int } X - A)$. Since C intersects both of these sets, neither is empty. But then $(C \cap \text{int } A) \cup (C \cap \text{int } X - A)$ is a separation of C, contradicting the connectednedd of C. Thus C intersects Bd A.

Problem 3.23.7: $\mathbb{R}_\ell$ is not connected. Consider the separation $\mathbb{R} = (-\infty, 0) \cup [0, -\infty)$.

Problem 3.23.8: As in Example 6 in the text, we may consider $\mathbb{R}^\omega$ as the union of the set of all bounded sequences and the set of all bounded sequences. This set is open since if $\mathbf{a}$ is in $\mathbb{R}^\omega$, then the open ball $B(\mathbf{a}, \frac{1}{2})$ in the uniform topology consists entirely of bounded sequences or unbounded sequences depending on whether $\mathbf{a}$ is bounded or not. Thus we have come up with a separation of $\mathbb{R}^\omega$, so the set is not connected.

Problem 3.23.9: For $x \in X$, let $\ell_x = \{x\} \times Y$, and for $y \in Y$, let $\ell_y = X \times \{y\}$. Notice that both types of sets are connected since they are homeomorphic to either X or Y. Notice further that $(X \times Y) - (A \times B) = (\bigcup_{a \in X - A} \ell_a) \cup (\bigcup_{b \in Y - B} \ell_b)$. Fix $x \in X - A$. Then for each $b \in Y - B$, ℓ_b intersects ℓ_x. Then, by Problem 3.23.3, $\ell_x \cup (\bigcup_{b \in Y - B} \ell_b)$ is connected. Denote this set by C. Notice that for all $a \in X - A$, ℓ_a intersects C. Thus, again by Problem 3.23.3, $(X \times Y) - (A \times B) = (\bigcup_{a \in X - A} \ell_a) \cup (\bigcup_{b \in Y - B} \ell_b) = C \cup (\bigcup_{a \in X - A} \ell_a)$ is connected.

Problem 3.23.10: (a) Notice that X_K is homeomorphic to $\prod_{k \in K} X_k$ whichis connected by Theorem 23.6.

M Tight

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