NOTE OF CORRECTION

By Walter Rudin

The paper "Homogeneity problems in the theory of Čech compactifications", pp. 409–420 of this volume, contains an error. Normality of X should be added to the hypotheses of Theorem 4.5. That the theorem is false as it stands is shown by the following example (pointed out by Leonard Gillman).

Let ω and Ω be the first infinite ordinal and the first uncountable ordinal, respectively. Let A and B be the sets of all ordinals not exceeding ω and Ω, respectively, with the usual interval topology, and let S be the Cartesian product $A \times B$. Remove the point (ω, Ω) from S and let X be the resulting space. Then X is a locally compact Hausdorff space, and the set of points (n, Ω) $(n \in N)$ is closed, infinite, and discrete. But $\beta X = S$, so that X^* consists of just one point, and is therefore homogeneous.

Normality of X is needed to establish the result of step (b) in the proof of Theorem 4.5. The error in the proof occurs in the last sentence of (b).