



**Figure 1.4.** A Covering of an Irregularly Shaped Set  $F$  by Disjoint Rectangles. The probability of  $F$  is approximated by the smallest value of  $\sum_{i=1}^n \text{Area}(A_i)$  that can be achieved by rectangles such as those shown. The approximation converges to  $P(F)$  as  $n$  tends to infinity.