Let $A$ be a monoid and $B$ a submonoid. The element $a \in A$ omits $B$ if for all $b \in B$ and $u, v \in A$,

$$
u b v=a \Longrightarrow b=1
$$

and the submonoid $C$ omits $B$ if $c$ omits $B$ for all $c \in C$.
Let $A$ be a monoid and $B, C$ submonoids, and suppose that for all $a \in A, a$ omits $B$ whenever $a$ omits $C$. We say that $B$ is absolutely continuous with respect to $C$ and write $B \ll C[1]$.
Exercise. Let $A$ be a monoid and $B, C \leq A$. Prove that if $B \leq C$, then $B \ll C$.
Exercise. Find a monoid $A$ and submonoids $B, C \leq A$ such that $B \not \leq C$ and $B \ll C$. (Hint: Let $A=\langle x, y: x y=x\rangle$.)

References
[1] "Real Analysis" Folland (1984) p. 83.

