$$
\begin{array}{ccc}
D^n \times \{0\} \cup S^{n-1} \times [0,1] & \xrightarrow{\ \bar{f}\ } & E \\
\downarrow & \nearrow^{\bar{h}} & \downarrow{p} \\
D^n \times [0,1] & \xrightarrow{\ h\ } & B
\end{array}
$$