8.4 List of Symbols

\[ V(G) \quad : \quad \text{Vertex set of a graph } G \]
\[ E(G) \quad : \quad \text{Edge set of a graph } G \]
\[ L(G) \quad : \quad \text{Line graph of a graph } G \]
\[ M(G) \quad : \quad \text{Middle graph of a graph } G \]
\[ T(G) \quad : \quad \text{Total graph of a graph } G \]
\[ T_2(G) \quad : \quad \text{Semitotal-point graph of a graph } G \]
\[ Ds(G) \quad : \quad \text{Degree splitting graph of a graph } G \]
\[ B(G) \quad : \quad \text{Block graph of a graph } G \]
\[ \text{deg}_G(v_i) \quad : \quad \text{Degree of a vertex } v_i \text{ of a graph } G \]
\[ \delta(G) \quad : \quad \text{Minimum degree of a graph } G \]
\[ \Delta(G) \quad : \quad \text{Maximum degree of a graph } G \]
\[ \delta'(G) \quad : \quad \text{Minimum edge degree of a graph } G \]
\[ \Delta'(G) \quad : \quad \text{Maximum edge degree of a graph } G \]
\[ \alpha_0(G) \quad : \quad \text{Vertex covering number of a graph } G \]
\[ \alpha_1(G) \quad : \quad \text{Edge covering number of a graph } G \]
\( \beta_0(G) \) : Vertex independence of a graph \( G \)

\( \beta_1(G) \) : Edge independence of a graph \( G \)

\( \kappa(G) \) : Vertex connectivity of a graph \( G \)

\( \lambda(G) \) : Edge connectivity of a graph \( G \)

\( d_G(u, v) \) : Distance between vertices \( u \) and \( v \) of a graph \( G \)

\( ecc_G(v) \) : Eccentricity of a vertex \( v \) of a graph \( G \)

\( diam(G) \) : Diameter of a graph \( G \)

\( K_p \) : Complete graph on \( p \) vertices

\( K_{m,n} \) : Complete bipartite graph

\( P_p \) : Path graph on \( p \) vertices

\( C_p \) : Cycle graph on \( p \) vertices

\( \lfloor \rfloor \) : Floor function of a number

\( \lceil \rceil \) : Ceiling function of a number

\( |S| \) : Cardinality of \( S \)

\( \gamma(G) \) : Domination number of a graph \( G \)

\( cr(G) \) : Crossing number of a graph \( G \)

\( i(G) \) : Inner vertex number of a graph \( G \)
\[\gamma(G) : \text{Domination number of a graph } G\]
\[\gamma_s(G) : \text{Split domination number of a graph } G\]
\[\gamma_c(G) : \text{Connected domination number of a graph } G\]
\[\gamma_t(G) : \text{Total domination number of a graph } G\]
\[\gamma_m(G) : \text{Maximal domination number of a graph } G\]
\[\gamma_{ct}(G) : \text{Cototal domination number of a graph } G\]
\[d(G) : \text{Domatic number of a graph } G\]