```
h_{ij} = 1; g = 0.25 / 24; (* g is Kappa from analytical notation*)
             e_j = 0.45; m_j = 0.061609 * 20.0^{-0.25} / 8760.0;
             a_{jm} = 3.6 * 10.0^{-6.08} * 40.0^{-0.37}; h_{jm} = 1;
             e_m = 0.85; m_m = 0.061609 * 40.0^{-0.25} / 8760.0;
             G^* = m_m / ((e_m - m_m * h_{jm}) * a_{jm});
              (*Define the equation*)
             equation[R_] := c * r_w * K_1 * (a_{ij} G^* + d * (1 + a_{ij} * h_{ij} * V^*)) * (1 + a_{ij} * h_{ij} * V^*) == (1 + a_{ij} * h_{ij} * V^*)
                     (c * R - d * V^*) * (1 + a_{ij} * h_{ij} * V^*) * (\xi * (1 + a_{ij} * h_{ij} * V^*) - a_{ij} * G^*) -
                      a_{ij} * V^* * G^* * (\xi * (1 + a_{ij} * h_{ij} * V^*) - a_{ij} * G^*)
              (*Numerical Solution*)
             numericalSolutions[R_] := NSolve[equation[R], V*]
             analyticalSolutions[R_] := Solve[equation[R], V*]
             Rrange = Range [0, 0.3, 0.01]
             numericalResults = numericalSolutions /@ Rrange;
              (*Display the Numerical Results*)
             Grid[Join[{{"R", "Numerical Solutions"}},
                   Transpose[{Rrange, numericalResults}]], Dividers → All]
             analResults = analyticalSolutions /@ Rrange;
              (*Display the Analytical Results*)
             Grid[Join[{{"R", "Analytical Solutions"}},
                    Transpose[{Rrange, analResults}]], Dividers → All]
             anaResults = Flatten /@ Transpose[{Rrange, V* /. analResults}];
             numResults = Flatten /@ Transpose[{Rrange, V* /. numericalResults}];
              (*Export Analytical Solutions to CSV with headers*)
             Export["Trial_Analytical_solutions.csv", anaResults,
                "CSV", "TableHeadings" \rightarrow {"R", "Soln1", "Soln2", "Soln3"}]
              (*Export Numerical Solutions to CSV with headers*)
             Export["Trial_Numerical_solutions.csv", numResults,
                "CSV", "TableHeadings" \rightarrow {"R", "Soln1", "Soln2", "Soln3"}]
             ••• ClearAll: r<sub>w</sub> is not a symbol or a string.
             ··· ClearAll: K<sub>1</sub> is not a symbol or a string.
             ••• ClearAll: aii is not a symbol or a string.
             ••• General: Further output of ClearAll::ssym will be suppressed during this calculation.
Out[v] = \{0., 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.01, 0.01, 0.02, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.
                0.09, 0.1, 0.11, 0.12, 0.13, 0.14, 0.15, 0.16, 0.17, 0.18, 0.19,
                0.2, 0.21, 0.22, 0.23, 0.24, 0.25, 0.26, 0.27, 0.28, 0.29, 0.3}
                  R
                                                                                      Numerical Solutions
                               \left\{ \left\{ V^{\star} \rightarrow -1.01218 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow -40\,017 \text{.} \right\} \right\}
               \textbf{0.01} \left| \left\{ \left\{ V^* \rightarrow -\textbf{1.01217} \times \textbf{10}^6 \right\}, \; \left\{ V^* \rightarrow -\textbf{1.01133} \times \textbf{10}^6 \right\}, \; \left\{ V^* \rightarrow -\textbf{30420.9} \right\} \right\}
               0.02 \left| \left\{ \left\{ V^* \rightarrow -1.01217 \times 10^6 \right\}, \; \left\{ V^* \rightarrow -1.01133 \times 10^6 \right\}, \; \left\{ V^* \rightarrow -20824.7 \right\} \right\}
               \textbf{0.03} \left| \left\{ \left\{ V^* \rightarrow -\textbf{1.01216} \times \textbf{10}^6 \right\} \text{, } \left\{ V^* \rightarrow -\textbf{1.01133} \times \textbf{10}^6 \right\} \text{, } \left\{ V^* \rightarrow -\textbf{11228.4} \right\} \right\}
                              \left\{ \left\{ V^{\star} \rightarrow -1.01216 \times 10^{6} \right\} , \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\} , \left\{ V^{\star} \rightarrow -1632.05 \right\} \right\}
               0.04
                                \left\{ \left\{ \mathsf{V}^* 	o - \mathbf{1.01216} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o 7964.36 \right\} \right\}
                               \left\{ \left\{ V^* 	o -1.01215 	imes 10^6 
ight\} , \left\{ V^* 	o -1.01133 	imes 10^6 
ight\} , \left\{ V^* 	o 17\,560.8 
ight\}
               0.06
                               \left\{ \left\{ V^* \to -1.01215 \times 10^6 \right\} \text{, } \left\{ V^* \to -1.01133 \times 10^6 \right\} \text{, } \left\{ V^* \to 27\,157.4 \right\} \right\}
               0.07
                                 \left\{ \left\{ \mathsf{V}^* 	o - \mathbf{1.01215} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o \mathbf{36754.} \right\} \right\}
               0.08
               0.09
                               \left\{ \left\{ V^{\star} 
ightarrow -1.01214 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow -1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 46\,350.7 
ight\}
                               \left\{ \left\{ V^* 	o -1.01214 	imes 10^6 
ight\} , \left\{ V^* 	o -1.01133 	imes 10^6 
ight\} , \left\{ V^* 	o 55\,947.4 
ight\}
               0.1
               0.11
                               \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01214} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o \mathbf{65\,544.2} \right\} 
ight\}
                                 \left\{ \left\{ V^* 
ightarrow -1.01213 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow -1.01133 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow 75\,141 . \left\} 
ight\}
               0.12
                               \left\{ \left\{ V^{\star} 
ightarrow -1.01213 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow -1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 84\,737.9 
ight\}
               0.13
              0.14
                               \left\{ \left\{ V^* 
ightarrow -1.01213 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow -1.01133 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow 94\,334.9 
ight\}
Out[ • ]=
               0.15
                               \left\{\left.\left\{\mathsf{V}^\star 	o - \mathbf{1.01212} 	imes \mathbf{10^6}\right\}\right , \left.\left\{\mathsf{V}^\star 	o - \mathbf{1.01133} 	imes \mathbf{10^6}\right\}\right , \left.\left\{\mathsf{V}^\star 	o \mathbf{103\,932.}\right.
ight\}
                               \left\{ \left\{ V^{\star} \rightarrow -1.01212 \times 10^{6} \right\}, \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\}, \left\{ V^{\star} \rightarrow 113529. \right\} \right\}
               0.16
               0.17
                                \left\{\left\{\mathsf{V}^\star 	o - 	exttt{1.01212} 	imes 	exttt{10}^6
ight\} , \left\{\mathsf{V}^\star 	o - 	exttt{1.01133} 	imes 	exttt{10}^6
ight\} , \left\{\mathsf{V}^\star 	o 	exttt{123126.}
ight\}
               0.18
                               \left\{\left.\left\{\mathsf{V}^\star 	o - \mathbf{1.01211} 	imes \mathbf{10^6}\right\}\right , \left.\left\{\mathsf{V}^\star 	o - \mathbf{1.01133} 	imes \mathbf{10^6}\right\}\right , \left.\left\{\mathsf{V}^\star 	o \mathbf{132723.}\right.
ight\}
                               \left\{ \left\{ V^{\star} 
ightarrow -1.01211 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow -1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 142\,320 . \left\} \left. 
ight\}
               0.19
                               \left\{ \left\{ V^{\star} 
ightarrow -1.01211 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow -1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 151918. 
ight\}
               0.2
               0.21
                               \left\{ \left\{ V^* 	o -1.01211 	imes 10^6 
ight\} , \left\{ V^* 	o -1.01133 	imes 10^6 
ight\} , \left\{ V^* 	o 161515 . 
ight\}
               0.22
                                 \left\{ \left\{ \mathsf{V}^* 	o -1.0121 	imes 10^6 
ight\} , \left\{ \mathsf{V}^* 	o -1.01133 	imes 10^6 
ight\} , \left\{ \mathsf{V}^* 	o 171112. 
ight\} 
ight\}
                                \left\{ \left\{ V^* 
ightarrow - 1.0121 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow - 1.01133 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow 180710. 
ight\}
               0.23
                                \left\{ \left\{ V^* \to -1.0121 \times 10^6 \right\}, \, \left\{ V^* \to -1.01133 \times 10^6 \right\}, \, \left\{ V^* \to 190\,307. \right\} \right\}
               0.24
               0.25
                                \left\{ \left\{ V^* \rightarrow -1.0121 \times 10^6 \right\}, \, \left\{ V^* \rightarrow -1.01133 \times 10^6 \right\}, \, \left\{ V^* \rightarrow 199\,905. \right\} \right\}
               0.26
                               \left\{ \left\{ V^* 	o -1.01209 	imes 10^6 
ight\} , \left\{ V^* 	o -1.01133 	imes 10^6 
ight\} , \left\{ V^* 	o 209\,502. 
ight\}
               0.27
                                \left\{ \left\{ V^{\star} \rightarrow -1.01209 \times 10^{6} \right\}, \, \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\}, \, \left\{ V^{\star} \rightarrow 219\,100. \right\} \right\}
                               \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01209} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o 228\,697. \right\}
               0.28
               0.29
                                \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01209} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o 238\,295. \right\}
                                  \left\{ V^* 	o -1.01208 	imes 10^6 
ight\} , \left\{ V^* 	o -1.01133 	imes 10^6 
ight\} , \left\{ V^* 	o 247\,892 . 
ight\}
               0.3
               R
                                                                                     Analytical Solutions
                                \left\{\left.\left\{\mathsf{V}^{\star}
ightarrow-\mathtt{1.01218}	imes\mathtt{10}^{6}\right\} , \left.\left\{\mathsf{V}^{\star}
ightarrow-\mathtt{1.01133}	imes\mathtt{10}^{6}\right\} , \left.\left\{\mathsf{V}^{\star}
ightarrow-\mathtt{40\,017.}\right.
ight\}
               0.01 \left| \left\{ \left\{ V^* \rightarrow -1.01217 \times 10^6 \right\}, \, \left\{ V^* \rightarrow -1.01133 \times 10^6 \right\}, \, \left\{ V^* \rightarrow -30420.9 \right\} \right\}
               0.02
                                \left\{ V^* 
ightarrow - 1.01217 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow - 1.01133 	imes 10^6 
ight\} , \left\{ V^* 
ightarrow - 20\,824.7 
ight\}
               0.03
                                \left\{V^* \rightarrow -1.01216 \times 10^6\right\}, \left\{V^* \rightarrow -1.01133 \times 10^6\right\}, \left\{V^* \rightarrow -11228.4\right\}
                                \left\{ V^* \to -1.01216 \times 10^6 \right\} \text{, } \left\{ V^* \to -1.01133 \times 10^6 \right\} \text{, } \left\{ V^* \to -1632.05 \right\} \right\}
               0.04
                                \left\{ \left\{ V^{\star} 
ightarrow - 1.01216 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow - 1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 7964.36 
ight\}
               0.05
                               \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01215} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o \mathbf{17\,560.8} \right\} 
ight\}
               0.06
                               \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01215} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o \mathbf{27\,157.4} \right\}
               0.07
                                \left\{ \left\{ V^* \rightarrow -1.01215 \times 10^6 \right\}, \, \left\{ V^* \rightarrow -1.01133 \times 10^6 \right\}, \, \left\{ V^* \rightarrow 36754. \right\} \right\}
               0.08
                               \left\{ \left\{ \mathsf{V}^* 	o - \mathbf{1.01214} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o 46\,350.7 \right\}
               0.09
                                \left\{\left\{\mathsf{V}^\star 	o - \mathbf{1.01214} 	imes \mathbf{10}^6
ight\} , \left\{\mathsf{V}^\star 	o - \mathbf{1.01133} 	imes \mathbf{10}^6
ight\} , \left\{\mathsf{V}^\star 	o \mathsf{55\,947.4}
ight\}
               0.1
               0.11
                               \left\{ \left\{ V^{\star} \rightarrow -1.01214 \times 10^{6} \right\}, \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\}, \left\{ V^{\star} \rightarrow 65\,544.2 \right\} \right\}
               0.12
                                 \left\{ \left\{ V^{\star} 
ightarrow -1.01213 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow -1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 75\,141. 
ight\}
                               \left\{ \left\{ V^{\star} \rightarrow -1.01213 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow 84\,737.9 \right\} \right\}
               0.13
               0.14
                               \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01213} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o 94\,334.9 \right\} 
ight\}
Out[ • ]=
                               \left\{ \left\{ V^{\star} \rightarrow -1.01212 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow 103\,932 \text{.} \right\} \right\}
               0.15
                               \left\{ \left\{ V^{\star} \rightarrow -1.01212 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\} \text{, } \left\{ V^{\star} \rightarrow 113\,529 \text{.} \right\} \right\}
               0.16
                               \left\{ \left\{ V^{\star} 
ightarrow -1.01212 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow -1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 123\,126 . \left\} \left. 
ight\}
               0.17
                               \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01211} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^{\star} 	o \mathbf{132723.} \right\}
               0.18
               0.19
                               \left\{ \left\{ \mathsf{V}^* 	o - \mathbf{1.01211} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o - \mathbf{1.01133} 	imes \mathbf{10^6} \right\} , \left\{ \mathsf{V}^* 	o \mathbf{142320.} \right\} \right\}
                                \left\{ \left\{ V^{\star} \rightarrow -1.01211 \times 10^{6} \right\}, \, \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\}, \, \left\{ V^{\star} \rightarrow 151\,918. \right\} \right\}
               0.21
                                  \left\{ V^* \rightarrow -1.01211 \times 10^6 \right\}, \left\{ V^* \rightarrow -1.01133 \times 10^6 \right\}, \left\{ V^* \rightarrow 161515. \right\}
               0.22
                                 \{\{V^* \rightarrow -1.0121 \times 10^6\}, \{V^* \rightarrow -1.01133 \times 10^6\}, \{V^* \rightarrow 171112.\}\}
                                 \left\{ \left\{ V^{\star} \rightarrow -1.0121 \times 10^{6} \right\}, \, \left\{ V^{\star} \rightarrow -1.01133 \times 10^{6} \right\}, \, \left\{ V^{\star} \rightarrow 180\,710. \right\} \right\}
               0.23
               0.24
                                 \left\{ \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.0121} 	imes \mathbf{10}^{6} \right\} , \left\{ \mathsf{V}^{\star} 	o - \mathbf{1.01133} 	imes \mathbf{10}^{6} \right\} , \left\{ \mathsf{V}^{\star} 	o \mathbf{190307.} \right\} \right\}
               0.25
                                \left\{ \left\{ V^* \rightarrow -1.0121 \times 10^6 \right\}, \, \left\{ V^* \rightarrow -1.01133 \times 10^6 \right\}, \, \left\{ V^* \rightarrow 199\,905. \right\} \right\}
                               \left\{ \left\{ V^* \to -1.01209 \times 10^6 \right\} \text{, } \left\{ V^* \to -1.01133 \times 10^6 \right\} \text{, } \left\{ V^* \to 209\,502 \text{.} \right\} \right\}
               0.26
                               \left\{ \left\{ V^* \to -1.01209 \times 10^6 \right\} \text{, } \left\{ V^* \to -1.01133 \times 10^6 \right\} \text{, } \left\{ V^* \to 219\,100 \text{.} \right\} \right\}
                                \left\{ \left\{ \mathsf{V}^{\star} 
ightarrow - 1.01209 	imes 10^6 
ight\} , \left\{ \mathsf{V}^{\star} 
ightarrow - 1.01133 	imes 10^6 
ight\} , \left\{ \mathsf{V}^{\star} 
ightarrow 228\,697. 
ight\}
               0.28
                                \left\{ \left\{ V^{\star} 
ightarrow -1.01209 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow -1.01133 	imes 10^{6} 
ight\} , \left\{ V^{\star} 
ightarrow 238\,295. 
ight\}
               0.29
                                  \left\{ V^* \rightarrow -1.01208 \times 10^6 \right\}, \left\{ V^* \rightarrow -1.01133 \times 10^6 \right\}, \left\{ V^* \rightarrow 247\,892. \right\}
                0.3
Out[#]= Trial_Analytical_solutions.csv
Out[ • ]= Trial_Numerical_solutions.csv
```

 $ln[\cdot]:=$  ClearAll  $r_w$ , c,  $K_1$ ,  $a_{ij}$ ,  $h_{ij}$ , d, R,  $\mathcal{E}$ ,  $G^*$ 

(\*Constants\*) r<sub>w</sub> = 0.2 / 24.0;

 $K_1 = 5$ ;

c = 10000; d = 0.25 / 24.0;

 $a_{ij} = 3.6 * 10.0^{-6.08} * 20.0^{-0.37};$