

LIST OF FIGURES

FIGURE NO.	TITLE	PAGE NO.
2.1	Co ordinate system for continuously moving surface	34
2.2	Velocity profile against η for different values of n and Re_m with $Pr=0.02$ and $\theta_r = 2.0$	38
2.3	Velocity profile against η for different values of n and Re_m with $Pr=0.02$, $Ec= 0$ and $\theta_r=2.0$	39
2.4	Velocity profile against η for different values of n and Re_m with $Pr=0.02$, $Ec=0.5$ and $\theta_r =2.0$	40
2.5	Velocity profile against η for different values of Re_m with $Pr=0.02$, $n=0.3$ and $E_c =0.0$	41
2.6	Temperature profile against η for different values of n and Re_m with $Pr=0.02$ and $\theta_r = 2.0$	42
2.7	Temperature profile against η for different values of n and Re_m with $Pr=0.02$, $Ec=0.0$ and $\theta_r=2.0$	43
2.8	Temperature profile against η for different values of n and Re_m with $Pr=0.02$, $Ec= 0.5$ and $\theta_r = 2.0$	44
2.9	Temperature profile against η for different values of n and Re_m with $Pr=0.02$, $n =0.3$ and $Ec = 0$	45
2.10	Heat transfer rate	46
3.1a	Effect of Prandtl number Pr on non- dimensional velocity f'	58
3.1b	Effect of Prandtl number Pr on non- dimensional temperature θ	59

FIGURE NO.	TITLE	PAGE NO.
3.2	Effect of magnetic field parameter M on non-dimensional velocity f'	60
3.3	Effect of permeability parameter K on non-dimensional velocity f'	61
3.4	Effect of magnetic field parameter M on non- dimensional temperature θ	62
3.5	Effect of permeability parameter K on non-dimensional temperature θ	63
4.1	Physical model and coordinate system	71
4.2	Velocity profile for different values of M	76
4.3	Temperature Profile for different values of Pr	77
4.4	Temperature profiles for different values of K	78
4.5	Temperature profile for different values of M	79
5.1	Schematic representation of the boundary layer on a continuous moving surface	84
5.2	Concentration profiles with Pr = 0.7 and n = 0	92
5.3	Concentration profiles with Pr = 0.7 and n = 1	93
5.4	Concentration profiles with Pr = 0.7 and n = 2	94
6.1	Velocity profiles for Gr = Gc = $F_w = \gamma = \alpha = R = 0.1$, Pr = 0.72, Sc=0.62	106
6.2	Velocity profiles for Gr = Gc = $\gamma = \alpha = R = M = 0.1$, Pr = 0.7, Sc=0.62	107
6.3	Velocity profiles for Gr = $F_w = \gamma = \alpha = R = M = 0.1$, Pr = 0.72, Sc = 0.62	108
6.4	Velocity profiles for Gc = $F_w = \gamma = \alpha = R = M = 0.1$, Pr = 0.72, Sc = 0.62	109
6.5	Velocity profiles for Gc = Gr = $F_w = \gamma = R = M = 0.1$, Sc = 0.62, Pr = 0.72	110

FIGURE NO.	TITLE	PAGE NO.
6.6	Temperature profiles for $Gr = Gc = F_w = \gamma = \alpha = R=0.1$ $Pr = 0.72, Sc = 0.62$	112
6.7	Temperature profiles for $Gr = Gc = \gamma = \alpha = 0.1$ & $R = M = 0.1, Pr = 0.72, Sc = 0.62$	113
6.8	Temperature profiles for $Gr = F_w = \gamma = \alpha = 0.1$ & $R = M = 0.1, Pr = 0.72, Sc = 0.62$	114
6.9	Temperature profiles for $Gc = F_w = \gamma = \alpha = 0.1$ & $R = M = 0.1, Pr = 0.72, Sc = 0.62$	115
6.10	Temperature profiles for $Gc = Gr = F_w = \gamma = \alpha = 0.1$ & $Ra = 0.1, M = 0.1, Sc = 0.62$	116
6.11	Temperature profiles for $Gc = Gr = F_w = \gamma = 0.1$ & $R = M = 0.1, Sc = 0.62, Pr = 0.72$	117
6.12	Temperature profiles for $Gc = Gr = F_w = \alpha = 0.1$ & $\gamma = M = 0.1, Sc = 0.62, Pr = 0.72$	118
6.13	Concentration profiles for $Gr = Gc = F_w = \gamma = \alpha = 0.1$ & $Ra = 0.1, Pr = 0.72, Sc = 0.62$	120
6.14	Concentration profiles for $Gr = Gc = \gamma = \alpha = 0.1$ & $Ra = M = 0.1, Pr = 0.72, Sc = 0.62$	121
6.15	Concentration profiles for $Gr = F_w = \gamma = \alpha = 0.1$ & $Ra = M = 0.1, Pr = 0.72, Sc = 0.62$	122
6.16	Concentration profiles for $Gc = F_w = \gamma = \alpha = 0.1$ & $Ra = M = 0.1, Pr = 0.72, Sc = 0.62$	123
6.17	Concentration profiles for $Gc = Gr = F_w = \gamma = \alpha = 0.1$ & $Ra = M = 0.1, Pr = 0.72$	124
6.18	Concentration profiles for $Gc = Gr = F_w = \gamma = 0.1$ & $Ra = M = 0.1, Sc = 0.62, Pr = 0.72$	125
6.19	Concentration profiles for $Gc = Gr = F_w = \alpha = 0.1$ & $Ra = M = 0.1, Sc = 0.62, Pr = 0.72$	126

