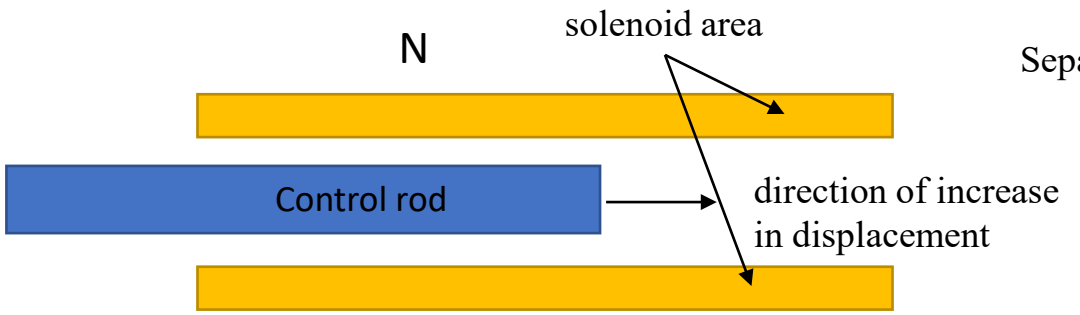
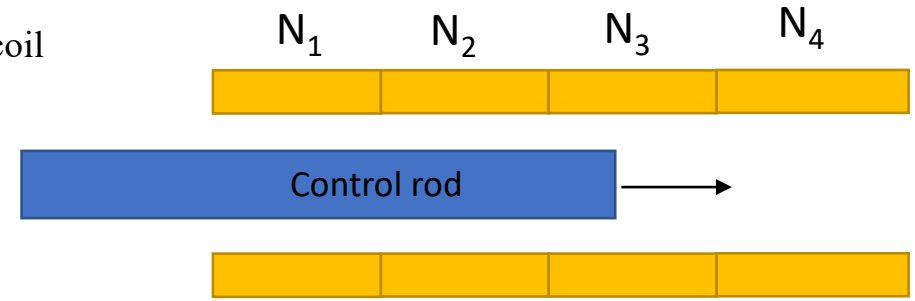
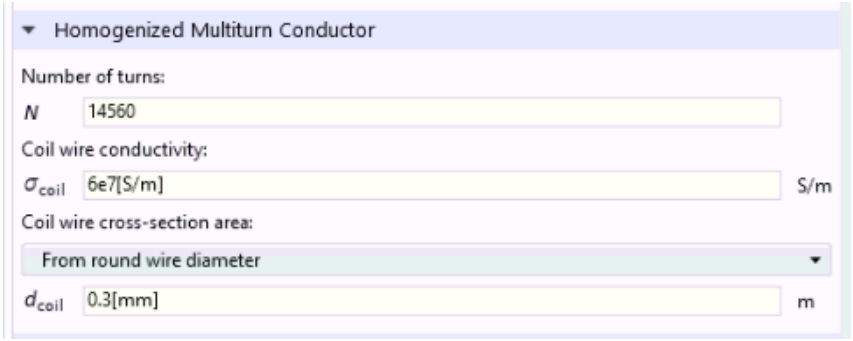


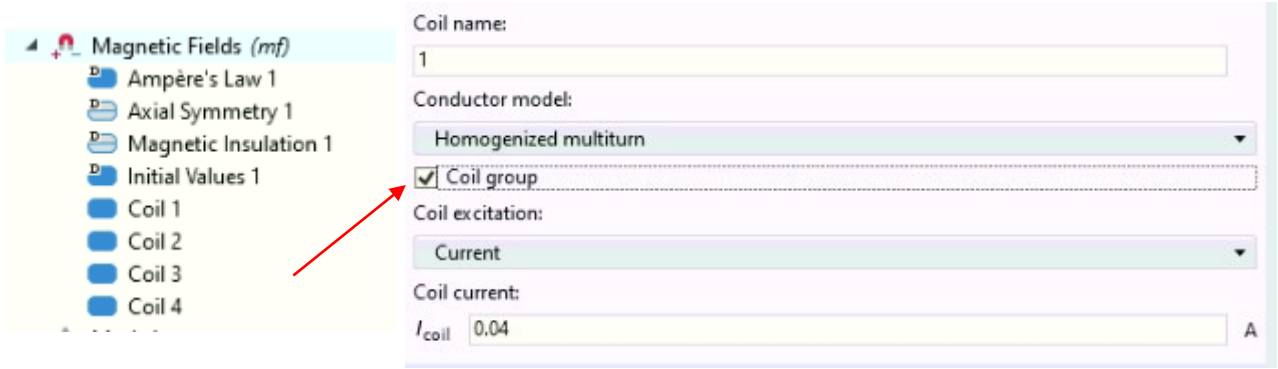
Separated the big coil



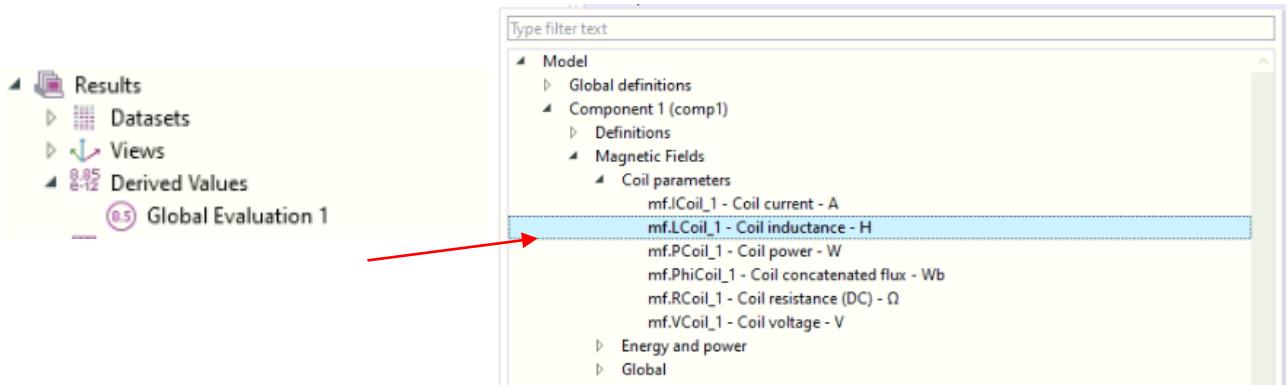
Separated into 4 small successive coils ($N = N_1 + N_2 + N_3 + N_4$)



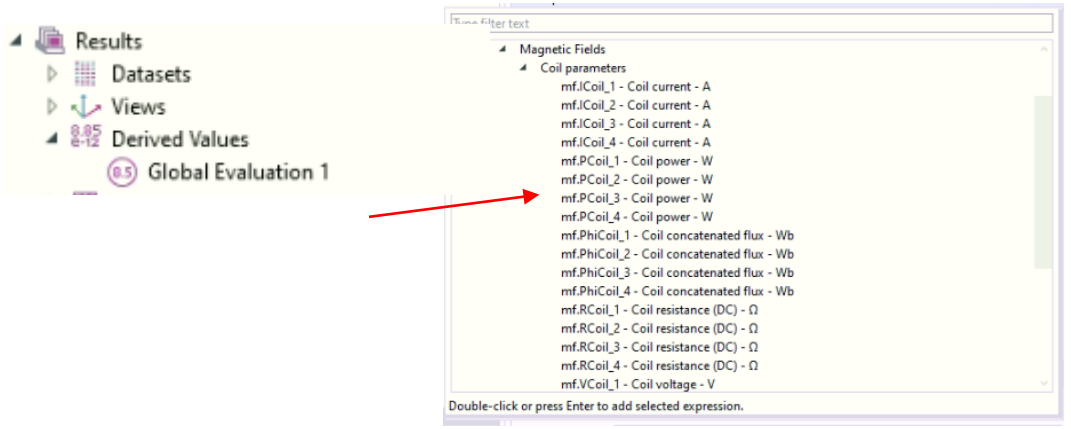
direction of increase in displacement



Using Coil group for 4 small coils



Calculate coil inductance for N number of turns



There is no coil inductance to be chosen here???