

Step[190]: $x=[1.088846 \ 1.186477]$ optim_fx=0.007973
Step[191]: $x=[1.089052 \ 1.186303]$ optim_fx=0.007937
Step[192]: $x=[1.088577 \ 1.185882]$ optim_fx=0.007924
Step[193]: $x=[1.088779 \ 1.185710]$ optim_fx=0.007889
Step[194]: $x=[1.088310 \ 1.185288]$ optim_fx=0.007874
Step[195]: $x=[1.088507 \ 1.185118]$ optim_fx=0.007841
Step[196]: $x=[1.088044 \ 1.184696]$ optim_fx=0.007825
Step[197]: $x=[1.088236 \ 1.184529]$ optim_fx=0.007793
Step[198]: $x=[1.087780 \ 1.184104]$ optim_fx=0.007776
Step[199]: $x=[1.087965 \ 1.183941]$ optim_fx=0.007745
Step[200]: $x=[1.087517 \ 1.183515]$ optim_fx=0.007727

最速下降法,共迭代 200 步

结果：

$x=[1.087517e+00 \ 1.183515e+00]$ optim_fx=0.007727