MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF OCEAN ENGINEERING

13.811 Advanced Structural Dynamics and Acoustics

Second Half - Problem Set 3

Assigned : 5 May 2004   Due : 12 May 2004

Problem 1

Earl G. Williams Problem 6.16

Problem 2

Repeat Problem 1 for rigid sphere

Problem 3

Sketch the polar plot of the target strength using low frequency approximation for problems 1 and 2 with the following parameters:

Sound speed   :   1500 m/s

Sphere radius :   1 m

Frequency   :   25 Hz

Problem 4

Earl G. Williams Problem 4.1