

Notes in MCEN 5115

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Project

Project overview.

octagon with black tape around the edges.

each edge is 36 inches. 8 feet tall and wide.

beacon's will be 12 inches off the playing surface.

upper loop 6 inch radius 18 inches high.

lower hoop 3 inch radius, 12 inch height. 4 inch wall right below it.

goal is 2 feet away.

robot height limit is 13 inches.

24 balls in the center, 12 red 12 blue, hold at most 8.

top target is 5 points, bottom 10 only for your ball.

Lecture

butterworth filters, chebbychev, bessell, low-pass, high pass, band pass, band stop, godlike.

-3 dB corner freq as per the usje

active filter with op-amp.

in practice, even numbers of poles are convenient.

dos poles takes une op amp.