背诵和条件 ✓

Example 4.4

Q: Jury stability table for $P(z)$?

Solution:

Row	z^0	z^1	z^2	z^3	z^4
1	a_4	a_3	a_2	a_1	a_0
2	a_0	a_1	a_2	a_3	a_4
3	b_3	b_2	b_1	b_0	
4	b_0	b_1	b_2	b_3	
5	c_2	c_1	c_0		
6	c_0	c_1	c_2		
7	d_1	d_0			
8	d_0	d_1			
9	e_0				
10	e_0				

$n = 4$

$2n - 3 = 8 - 3 = 5$

最后留三项

$|a_4| < a_0$

$P(z)\big|_{z=1} = a_0 + a_1 + a_2 + a_3 + a_4 > 0$

$P(z)\big|_{z=-1} = a_0 - a_1 + a_2 - a_3 + a_4 > 0$

$|b_3| > |b_0|$

$|c_2| > |c_0|$

	z^0	z^1	z^2	z^3	z^4
1	a_4	a_3	a_2	a_1	a_0
2	a_0	a_1	a_2	a_3	a_4
3	b_3	b_2	b_1	b_0	
4	b_0	b_1	b_2	b_3	

5 C_2 C_1 C_0

$|a_4| < a_0$

$P(1) > 0$

$P(-1) > 0$

$|b_3| > |b_0|$

$|c_2| > |c_0|$

n is even