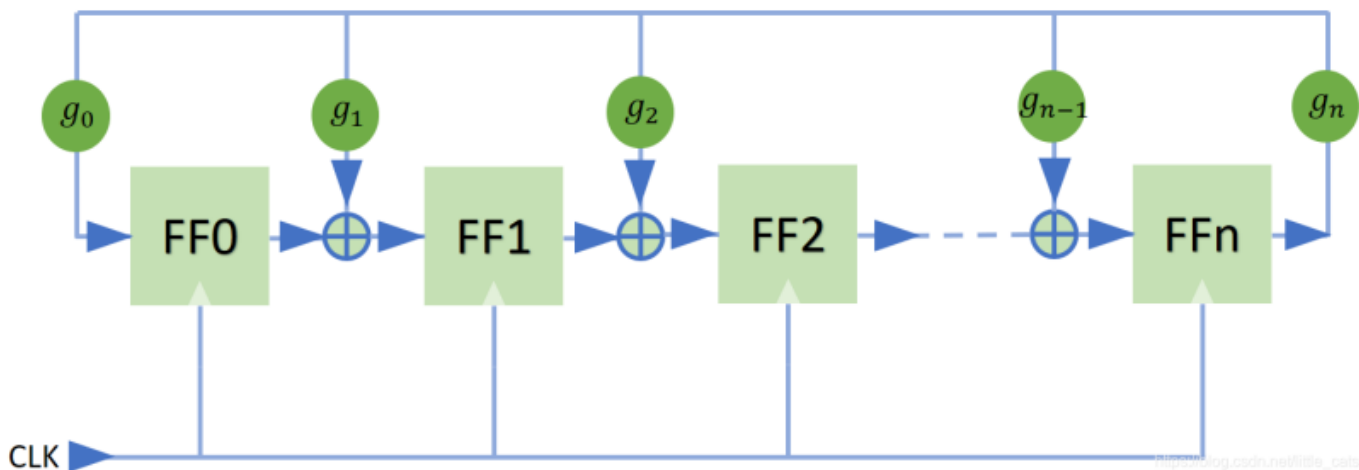


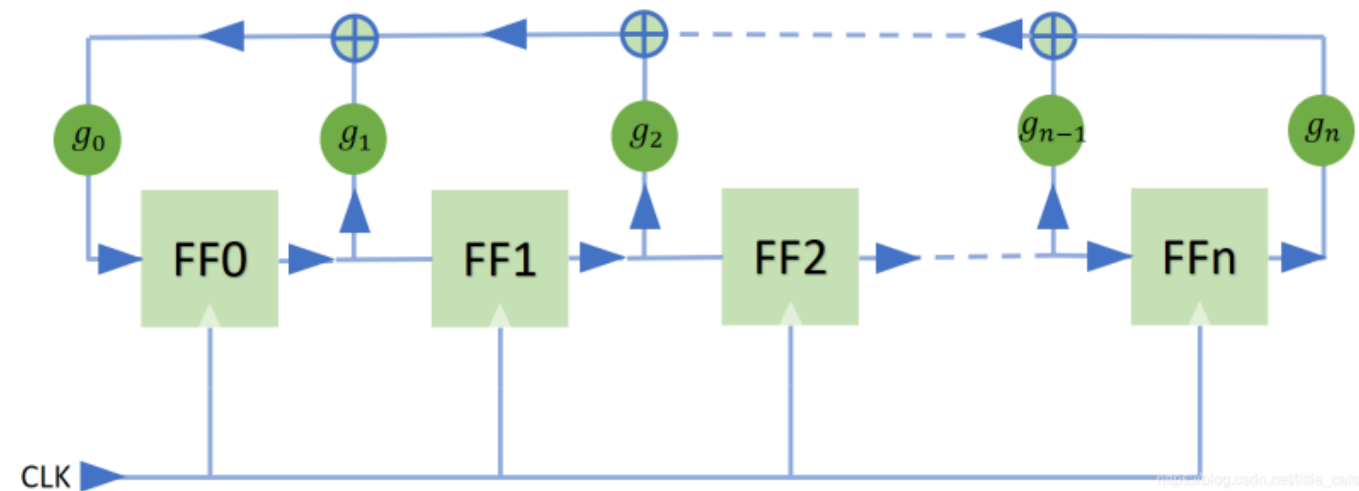
# LFSR

原文：[https://blog.csdn.net/little\\_cats/article/details/104488780](https://blog.csdn.net/little_cats/article/details/104488780)

## 1. Galois型实现



## 2. Fibonacci型实现



## 3. 多项式表

LFSR位数	状态周期	抽头配置	LFSR位数	状态周期	抽头配置
2	3	2, 1	17	131,071	17, 14
3	7	3, 2	18	262,143	18, 11
4	15	4, 3	19	524, 287	19, 6, 2, 1,
5	31	5, 3	20	1,048,575	20, 17
6	63	6, 5	21	2,097,151	21, 19
7	127	7, 6	22	4,194,303	22, 21

LFSR位数	状态周期	抽头配置	LFSR位数	状态周期	抽头配置
8	255	8, 6, 5, 4,	23	8,388,607	23, 18
9	511	9, 5	24	16,777,215	24, 23, 22, 17,
10	1,023	10, 7	25	33,554,431	25, 22
11	2,047	11, 9	26	67,108,963	26, 6, 2, 1,
12	4,095	12, 6, 4, 1,	27	134,217,727	27, 5, 2, 1,
13	8,191	13, 4, 3, 1,	28	268,435,455	28, 25
14	16,383	14, 5, 3, 1,	29	536,870,911	29, 27
15	32,767	15, 14	30	1,073,741,823	30, 6, 4, 1,
16	65,535	16, 15, 13, 4,	31	2,147,483,646	31, 28
32	4,294,967,294	32, 22, 2, 1,	32	4,294,967,294	32, 22, 2, 1,