

Exploration and modelling of Receiver Base Continuous Phase-FSK

Background

CPFSK is chosen because of its attractive function for modulation in modern short-range wireless systems. Its implementation complexity is low, resulting in low-power consumption and its availability to the implementation up to THz-frequencies.

Tasks

Phase 1: Research Literature

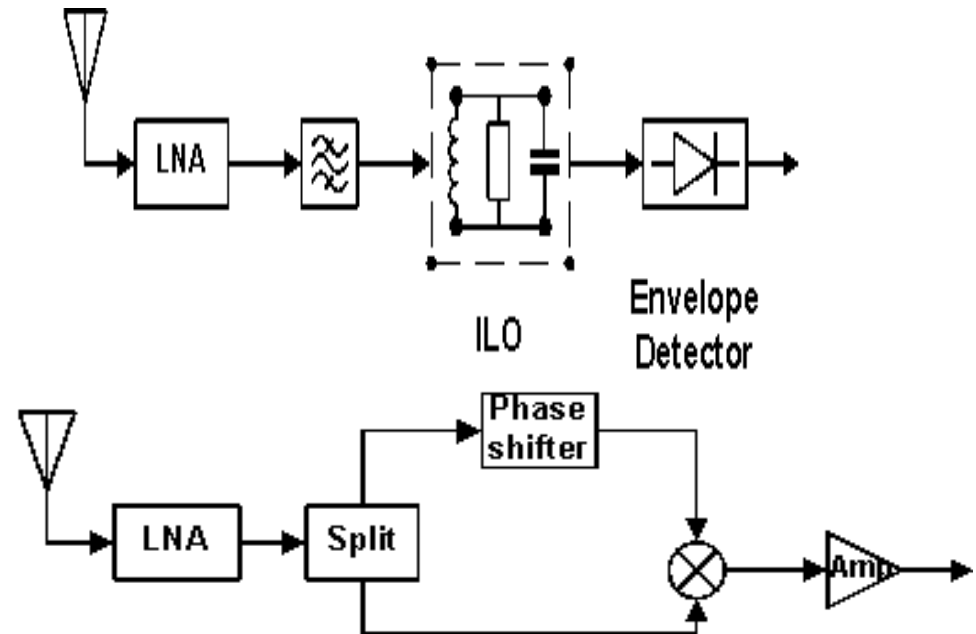
- Make a survey on CPFSK demodulation.
- Understanding of the whole receiver parameters.

Phase 2: Modeling and simulation

- Study of Verilog/Verilog AMS
- receiver modeling and simulation at 60 GHz.

Phase 3: Evaluation

- Evaluation of the receiver performance (data rate, bandwidth efficiency)
- Energy evaluation of system.
- Thesis and publication.



Contact

Yanlu Wang
Kopernikusstraße 16, 52074 Aachen
ICT cubes, 5th Floor, Room 538
Tel. 0241-80-24643
yanlu.wang@hfe.rwth-aachen.de
www.hfe.rwth-aachen.de