## Quasi Random Numbers

- For some applications pseudo random numbers are a little too random.
- Some portions of the domain are relatively under sampled and other portions are over sampled.
- Quasi Random number generators maintain a uniform density of coverage over the entire domain by giving up serial independence of subsequenctly generated value in order to obtain a uniform coverage of the domain.

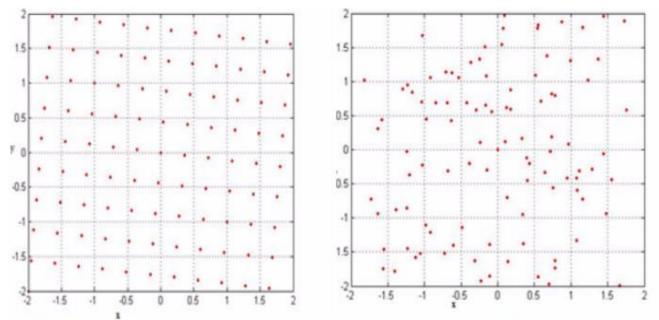
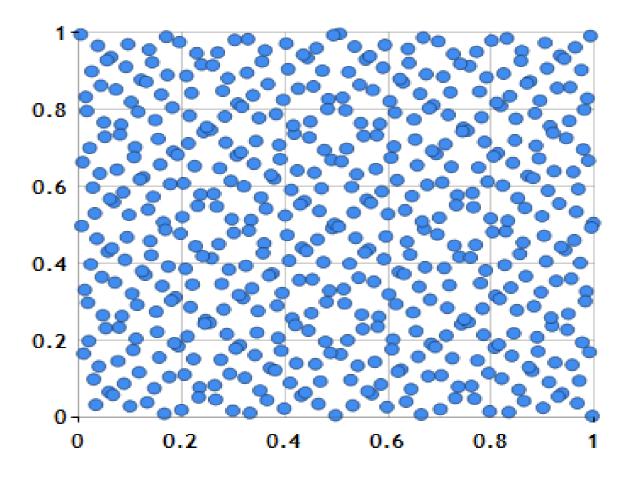
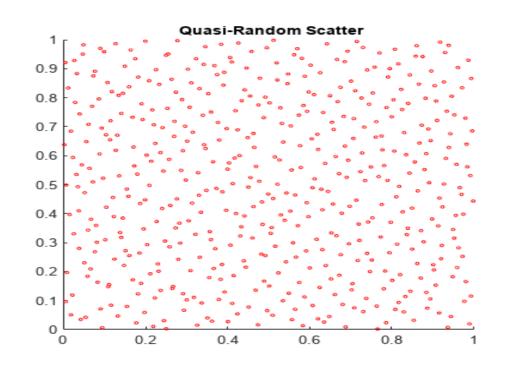


Fig-1a:Quasi-random distribution

Fig-1b:Pseudo-random distribution

## Quasirandom





	Pseudo-random	True-random
Approach	Algorithm of	Extract randomness
	mathematical formula,	from physical
	later translated into	phenomena and
	relatively bits of	introduce it into a
	programming code	computer
Efficiency	Fast responses in	Slow responses in
	generating numbers	generating numbers
Determinism	Sequence of numbers	Sequence of numbers
	can be reproduced	cannot be reproduced
Periodicity	Sequence of numbers is	Sequence of numbers
	repeated	will or will not repeated