

$$s(t) = \sum_{k=0}^{M-1} u_0(t - kT)$$

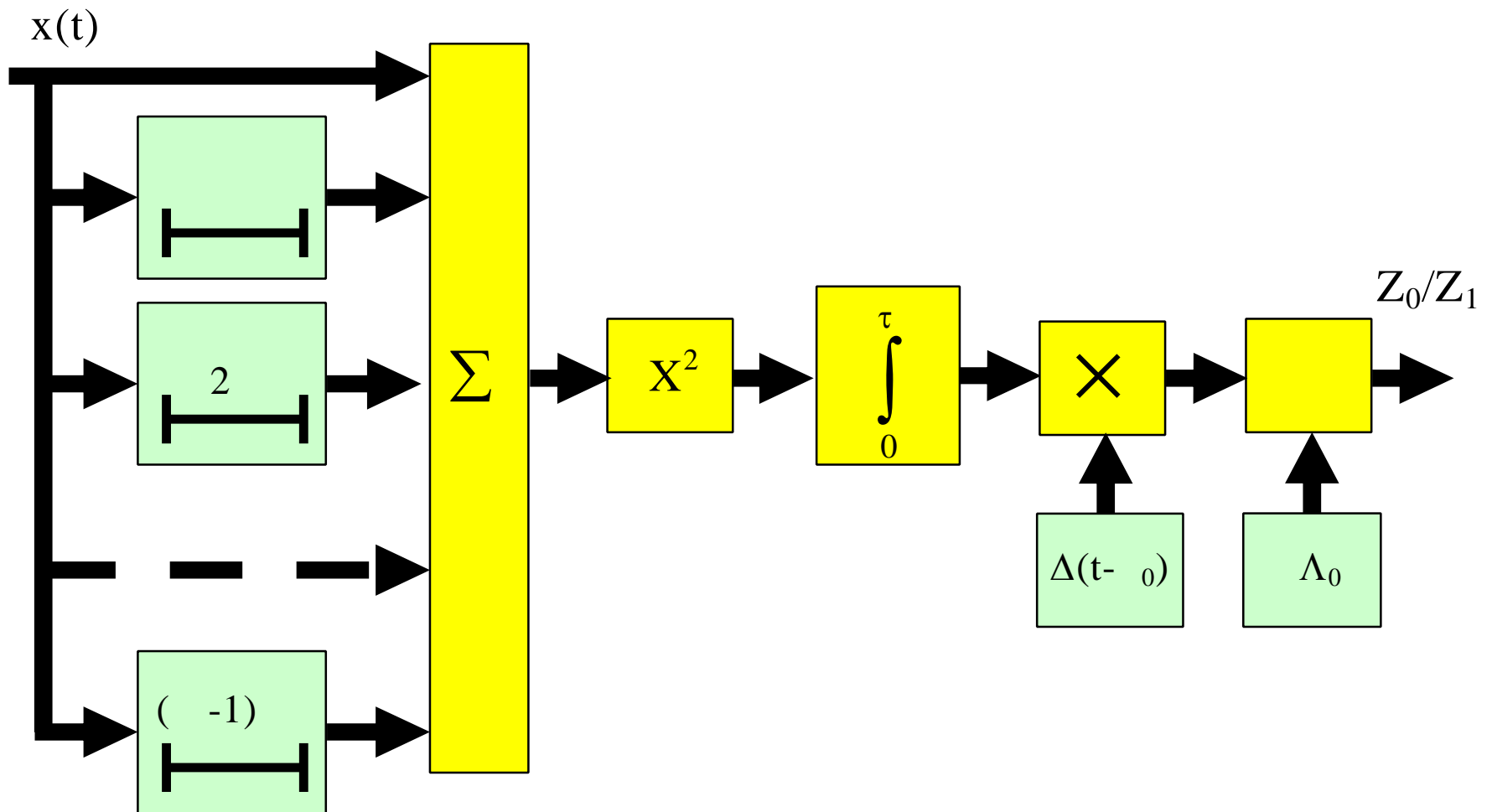
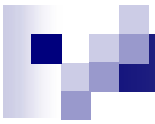
$$\tau_{S \text{ MIN}} < \tau_S < \tau_{S \text{ MAX}}$$

« , , , . . . 2003. »

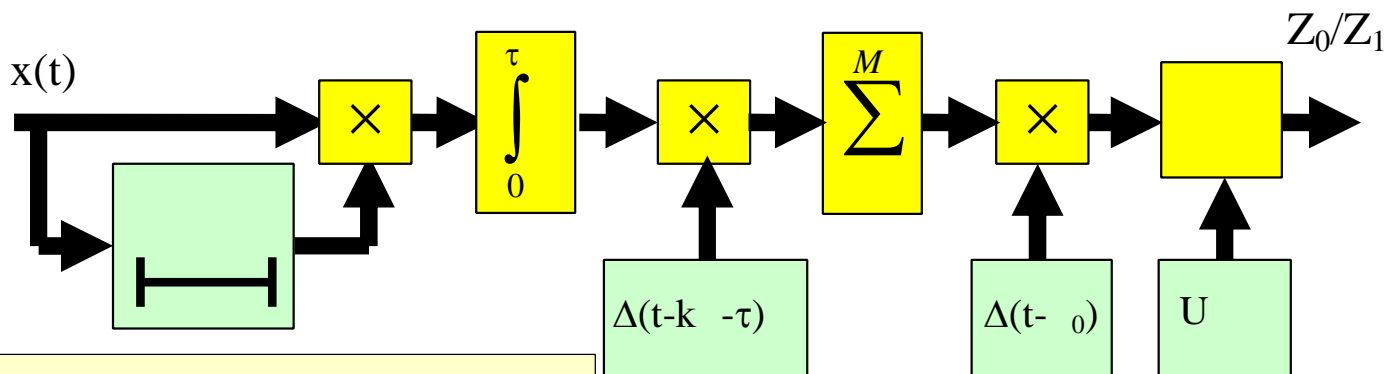
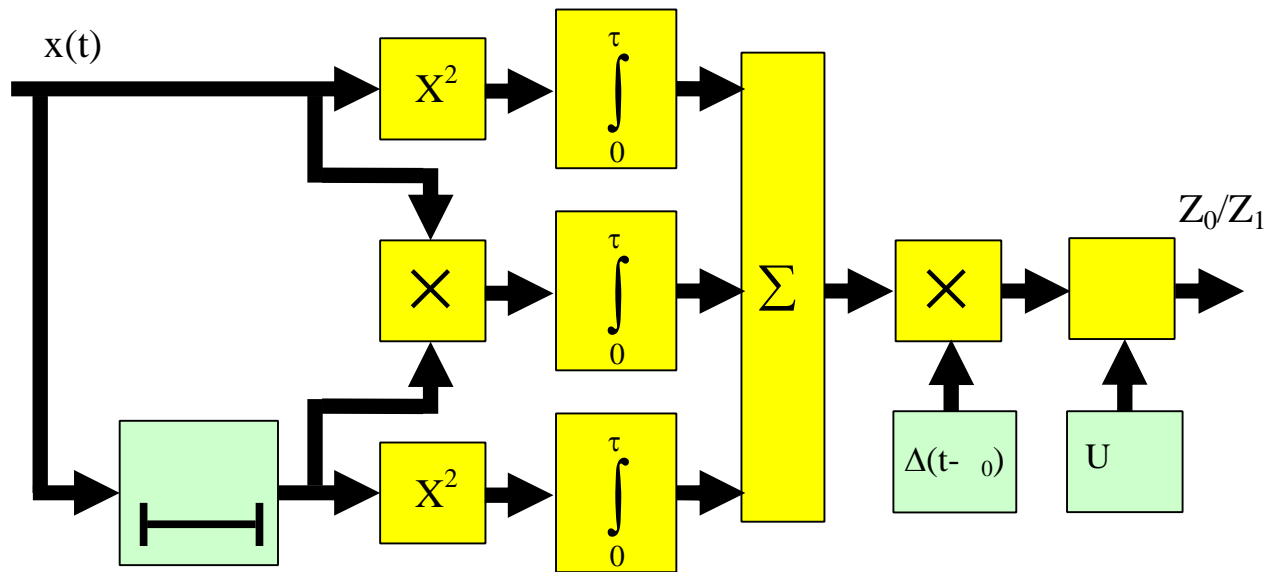
«Detection of Extended Targets by Ultra-Wideband Radars» V. Chernyak, I. Immoreev. Dresden. IRS 2003.

$$\ln \Lambda = \ln \frac{W \left[\frac{x(t)}{Z_1} \right]}{W \left[\frac{x(t)}{Z_0} \right]} = \sum_{k=0}^{M-1} \int_{-\infty}^{\infty} x(t) u_0(t - kT) dt - \frac{1}{2} \sum_{k=0}^{M-1} \sum_{l=0}^{M-1} \int_{-\infty}^{\infty} u_0(t - kT) u_0(t - lT) dt$$

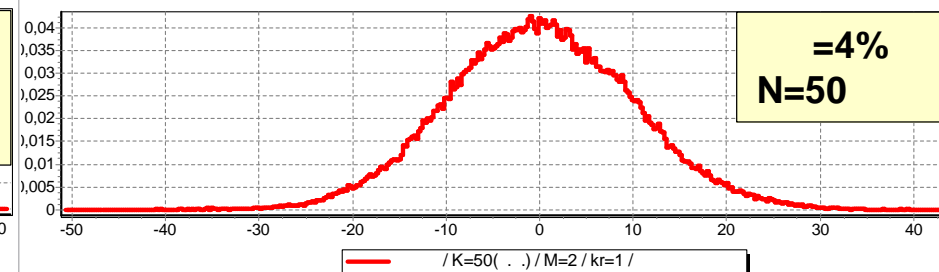
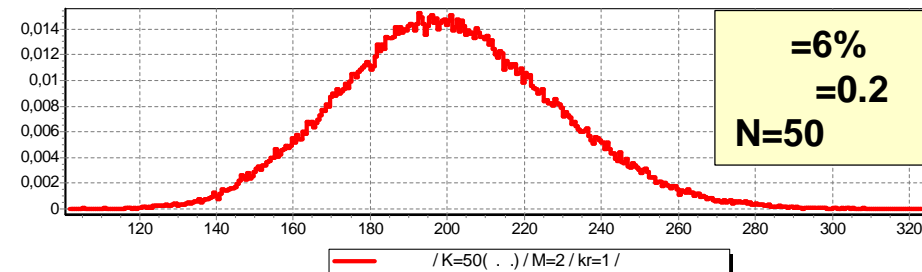
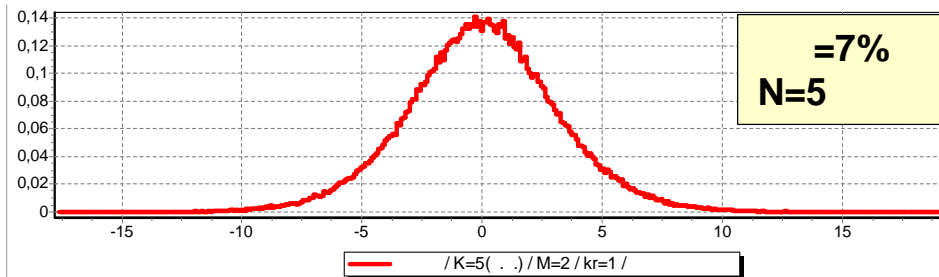
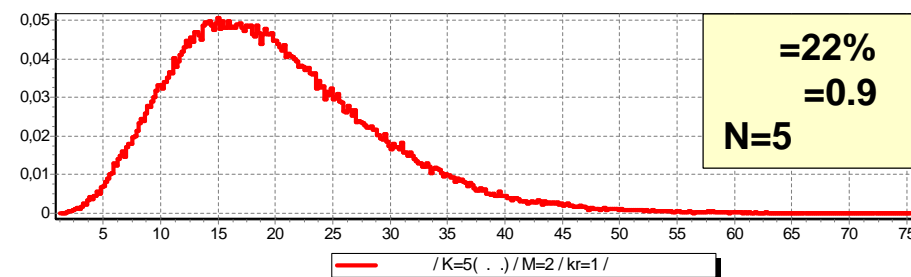
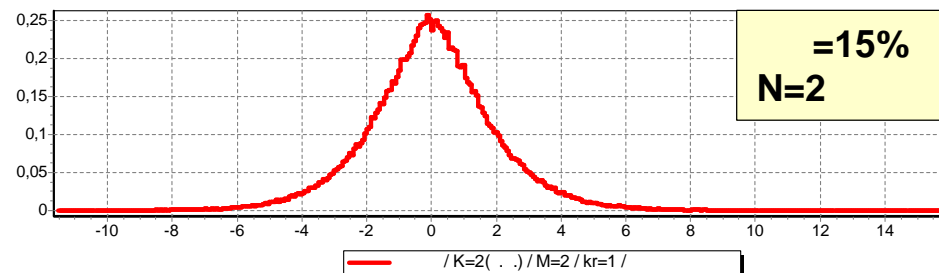
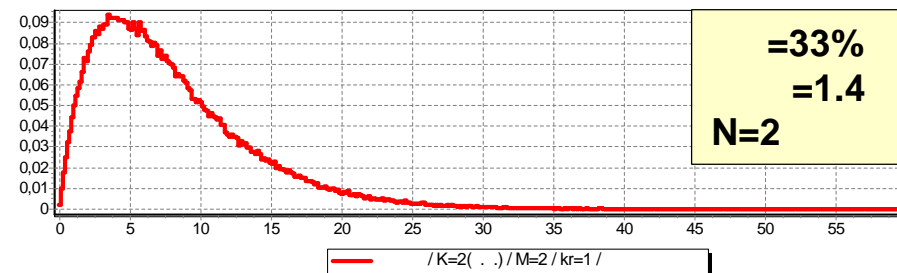
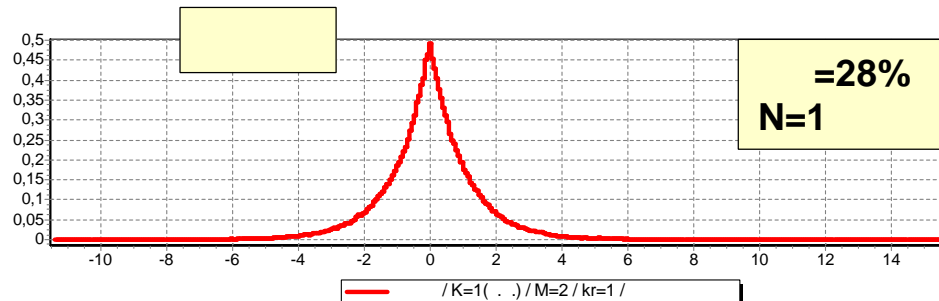
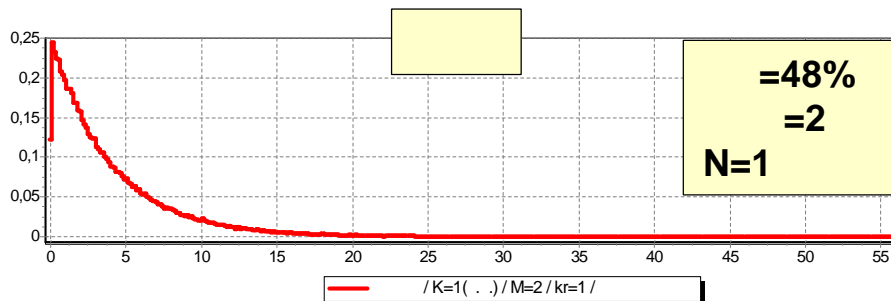
$$\mathfrak{R} = L = \int_0^{\tau} \left[\sum_{k=0}^{M-1} x(t + kT) \right]^2 dt \underset{<}{>} \Lambda_0$$

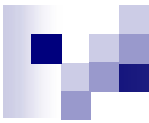


(2)



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	$0.5 \left[1 - \operatorname{erf} \left[\frac{x\sqrt{2n} - Mq^2 / 2}{\sqrt{2n + 2Mq^2}} \right] \right]$
	$0.5 \left[1 - \operatorname{erf} \left(\frac{x\sqrt{n} - q^2\sqrt{M-1} / 2}{\sqrt{n + q^2(2M-3)/(M-1)}} \right) \right]$
	$0.5 \left[1 - \operatorname{erf} \left(\frac{x\sqrt{n} - \sqrt{M}q^2 / 2\sqrt{2}}{\sqrt{n + q^2}} \right) \right]$
	$0.5 \left[-\operatorname{erf} \left(x - \sqrt{Mq^2 / 2} \right) \right]$

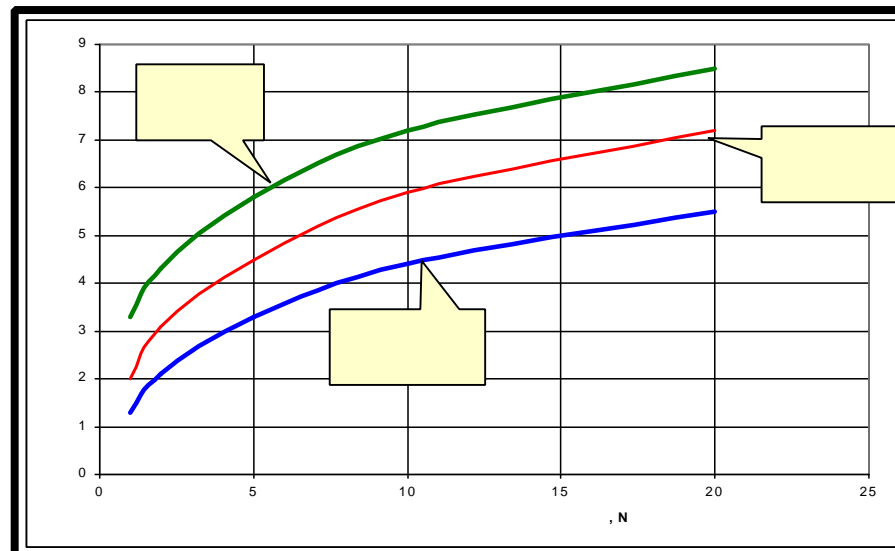
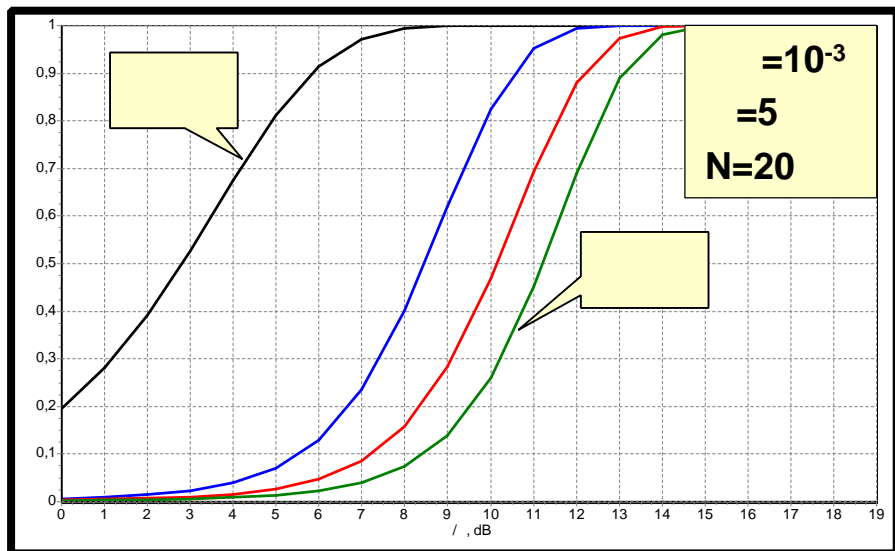
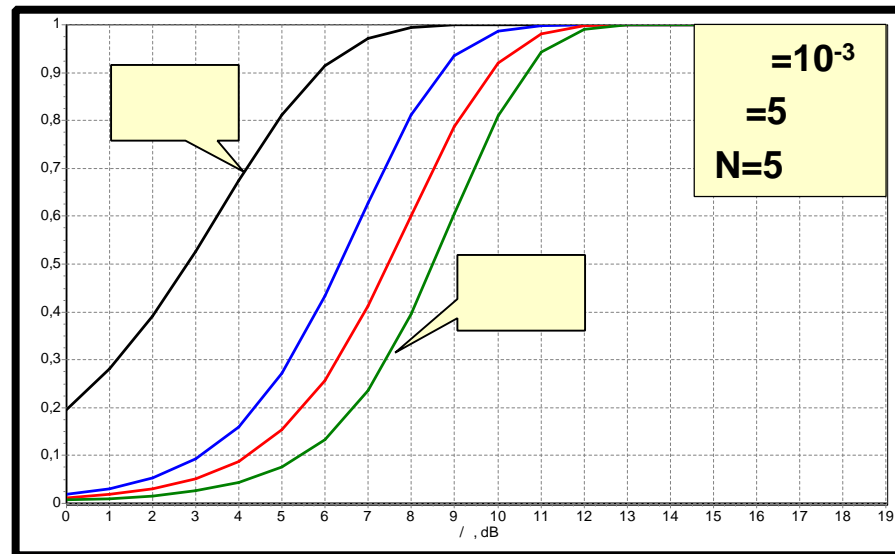
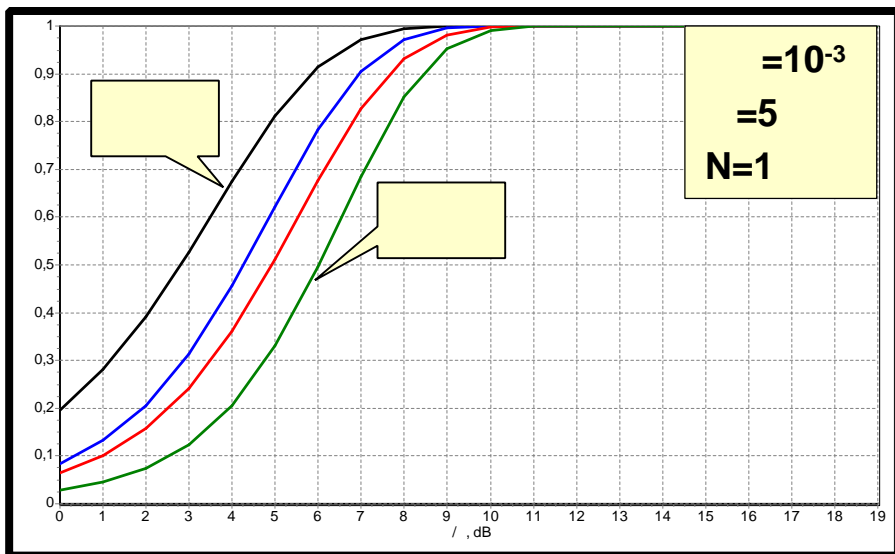
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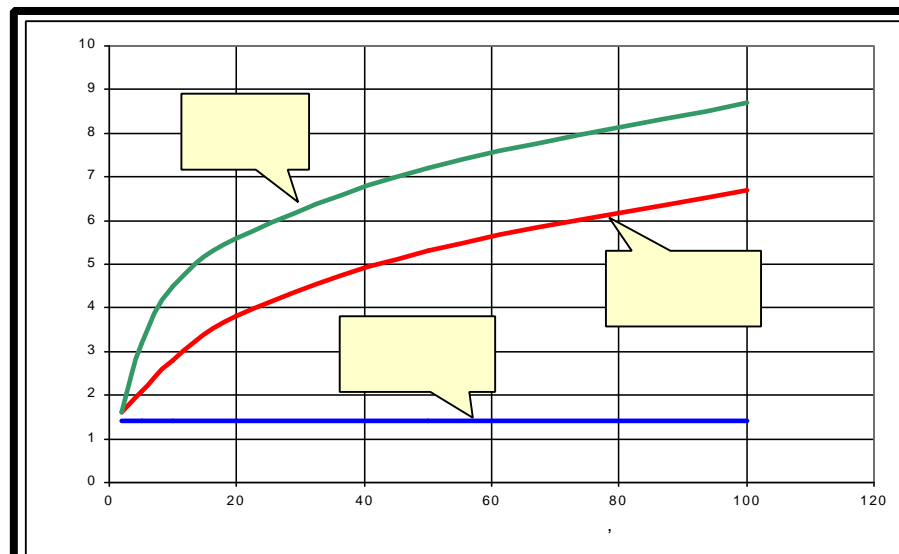
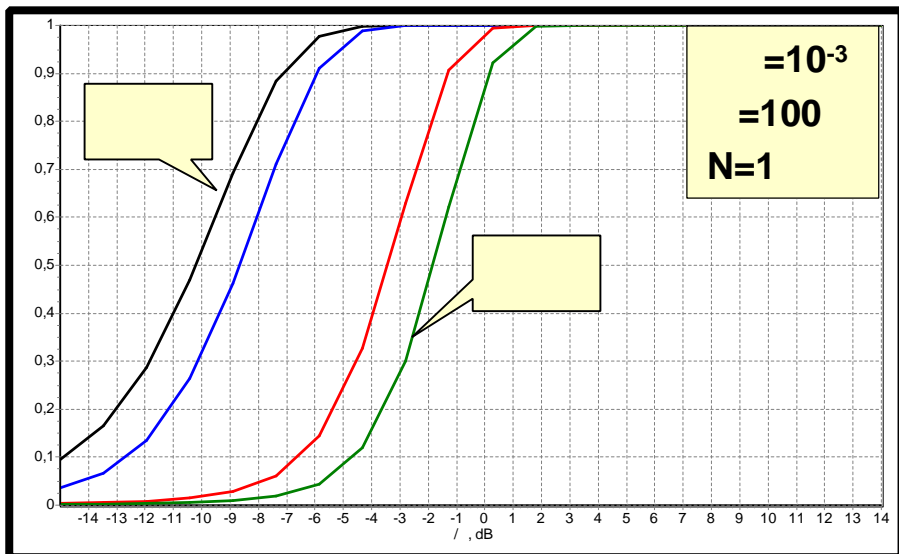
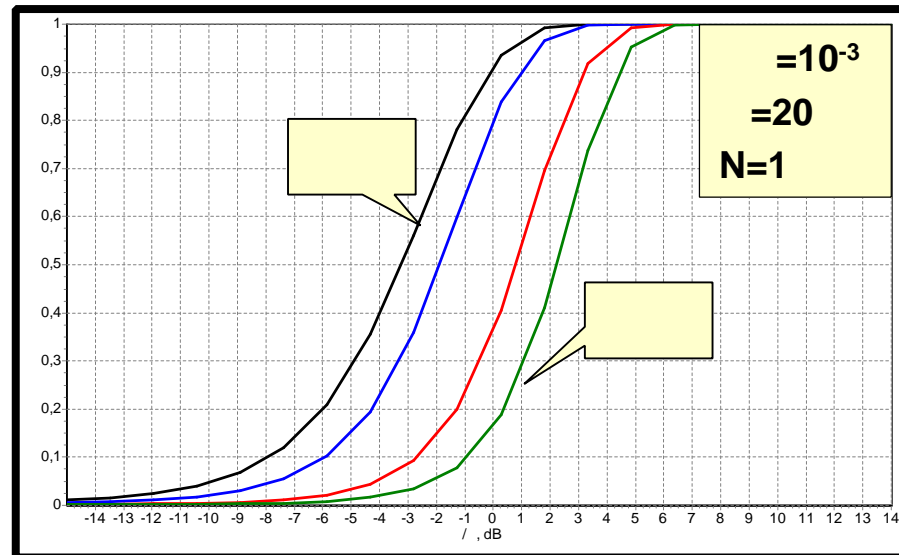
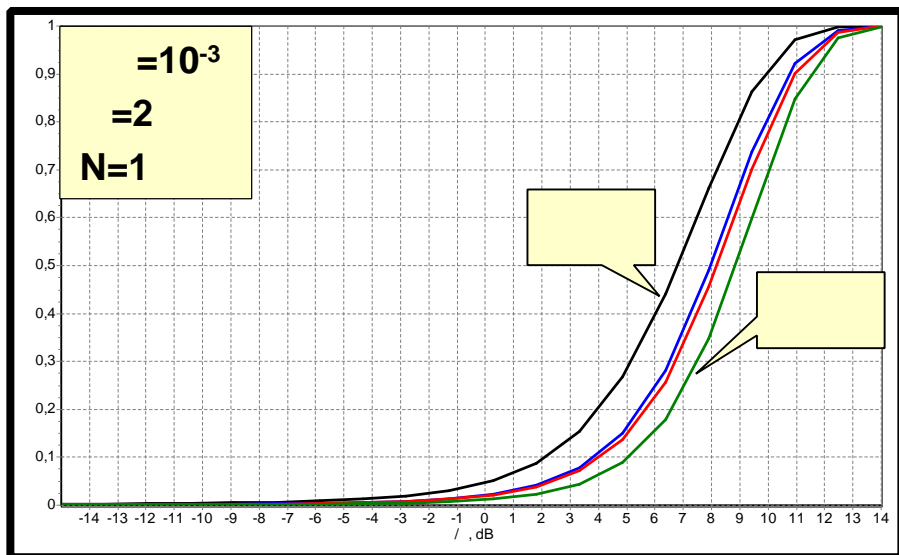
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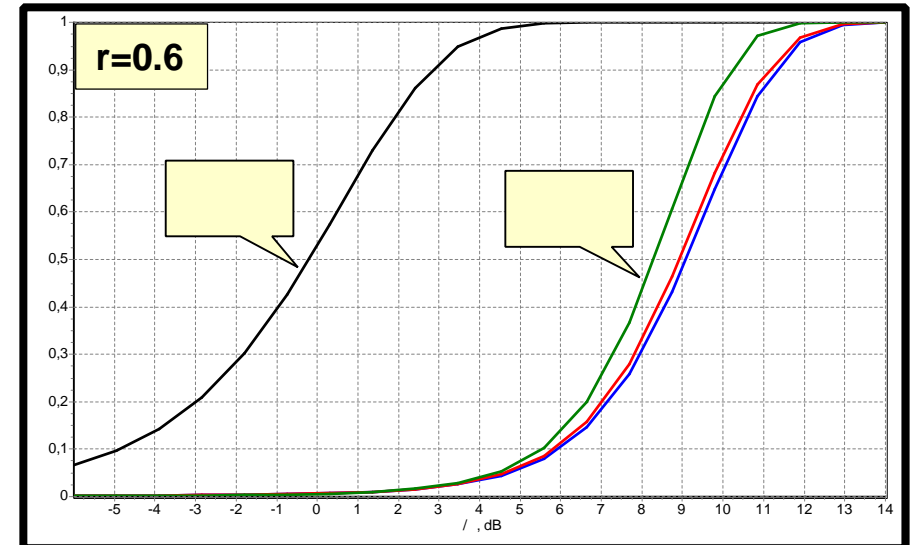
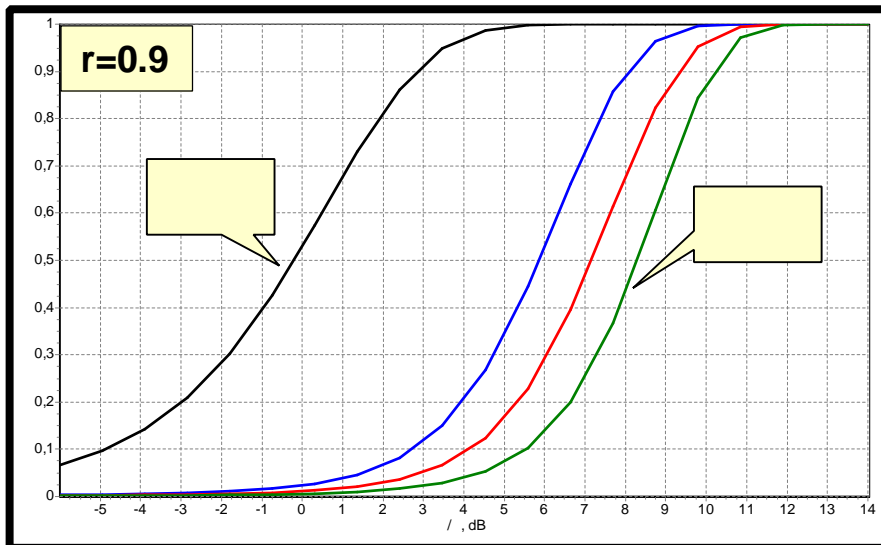
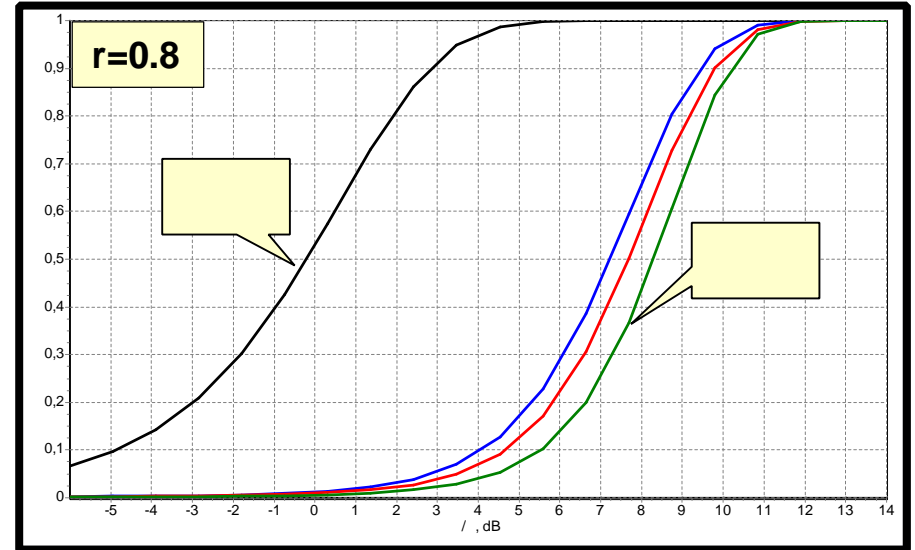
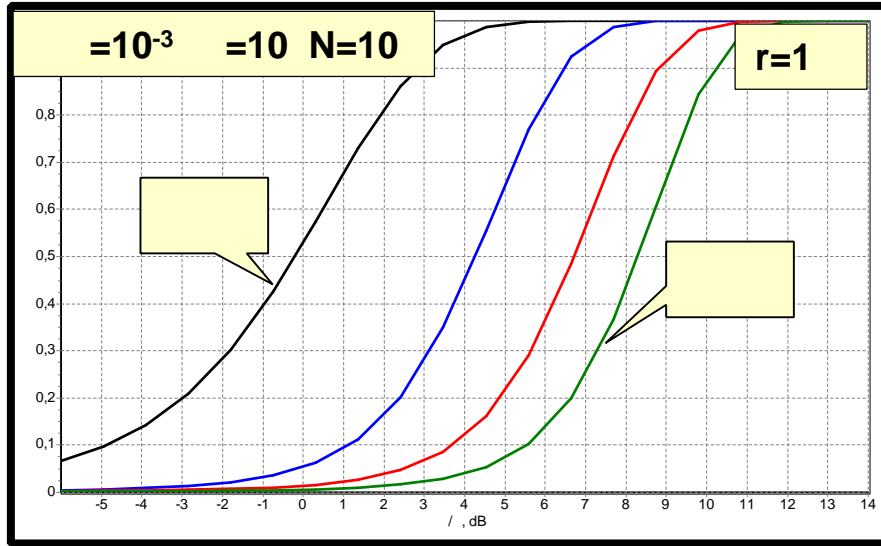
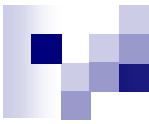
$$q = \sqrt{\frac{2E_c}{N_0}} \quad -$$

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$$x = \frac{\Lambda_0 - A_0}{\sqrt{2B_0}} \quad -$$









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