Q1) Regenerate Figs. 5.8 and 5.9 in book using Matlab and equations (5.13)-(5.18). Comment on the results. Why does Jake's model yield lower ICI power than deterministic CFO?

Equation- Text

Description automatically generated

Diagram

Description automatically generated

Chart

Description automatically generated

Q2) Regenerate Figs. 5.10 and 5.11 in book using Matlab and equations (5.20)-(5.23). Comment on the results. Would the ICI power be higher or lower if an exponentially decreasing (rather than a uniform) power delay profile is used?

Equation- Text, letter

Description automatically generated

Chart, line chart

Description automatically generated