```
crop General structure of a coherent optical communication system \\ setup, are now reviewed. At the transmitter the input data bits are processed by a DSP chain, whose tasks are: \\ to encode the information bits to provide FEC, to map the sebits to predefined symbols, and finally to produce a time—shaped digital wave form. This wave form is fed to a DAC, which converts it from the digital to the analog domain. The result in modulator employing interferometers. The modulate doptical field is transmitted through the fiber—optic channel, which can be composed of several spans of optical fiber interleaved with optical amplifiers (usually EDFA or Reference circular channel, demodulates the digital wave form, and finally performs error correction in order to retrieve the information of the produce of the prod
                                                  N_{N}FDM_{s}ystem.
                                            {}_{n}ormalized_{p}mcorrespond to the cases of normal () and anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. In the rest of this thesis, only the anomalous () dispersion regimes. The rest of this thesis () dispersion regimes () d
                                                {}_{n}ormalized used in one of the works that popularized the NFT in the recent years \cite{Monthly the NFT}, and also also appearing in other works such that the such 
                                                normalized NLSE used in \cite{Continuous of the first term}.
                                                             =-12[2]-2
              (5)
                                                                                                                                                                                               = T_0,
              (6)
                                                  P \equiv /(T_0^2)
                                                {}_{o} \check{f}_{v} a riables_{N} LSE has an additional minus and a factor 2 in the normalization of the space coordinate. Some of the works where the space of the contraction of of the contra
                                                             =-[2]-2^2
                                                  \underline{of}_v ariables_N LSE but replacing the change of variable <math>
ightarrow
                                                  comparison_{m} ansoor, tab: normalizations_{c} omparison_{a} grawal, and tab: normalizations_{c} omparison_{y} ang at the end of the comparison and takes the comparison 
                                              normalized belongs to a class of nonlinear PDE that can be solved exactly, i.e., it is possible to find an alytical solutions, by a mating a comparable of the properties of the comparable of
                                                        =-[2],(0,0)=[0]
              (8)
                                                  \mathcal{Q}(w,) = w^2 \mathcal{Q}(w,), \mathcal{Q}(w,0) = \mathcal{Q}_0(w)
                                                _{m}edium_{f}domainintheinterval_{0},]
                                                    Q(w,) = \exp(iw^2) Q(w,0)
(10)
```

 $_method-$ 

of the Foundamenth off and claim of he IVD for linear DDF