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Bit Interleaved Coded Modulation Fundamentals
Bit-Interleaved Coded Modulation: Fundamentals, Analysis and Design (Wiley - IEEE) 1st Edition by Leszek Szczecinski (Author), Alex Alvarado (Author)

Bit-Interleaved Coded Modulation: Fundamentals, Analysis ...
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Bit-Interleaved Coded Modulation: Fundamentals, Analysis ...
Presenting a thorough overview of bit-interleaved coded modulation (BICM), this book introduces the tools for the analysis and design of BICM transceivers. It explains in detail the functioning principles of BICM and proposes a refined probabilistic modeling of the reliability metrics—the so-called L-values—which are at the core of the BICM receivers.

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Bit-Interleaved Coded Modulation: Fundamentals, Analysis ...
The error probability is also the same for all bits, i.e., each bit is equally “protected” against errors. High-order modulations, on the other hand, introduce unequal error protection (UEP). This is an inherent property of bit-interleaved coded modulation (BICM) and depends on the labeling and the form of the constellation.

Bit-Interleaved Coded Modulation: Fundamentals, Analysis ...
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BIT-INTERLEAVED CODED MODULATION
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Bit-interleaved coded modulation: fundamentals, analysis ...
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Bit-Interleaved Coded Modulation: Fundamentals, Analysis ...
nents and error probability of Bit-Interleaved Coded Modulation (BICM) using the mismatched decoder model. We consider BICM with probabilistic shaping, where instead of the true bit or symbol probabilities and constellation used at the transmitter, the decoder can use arbitrary probabilities or reference constel-lations. We first study both the generalized mutual information (GMI) and the

Fundamentals of Bit-Interleaved Coded Modulation and ...
Bit-Interleaved Coded Modulation (BICM) is a pragmatic ap- proach combining the best out of both worlds: it takes advantage of the signal-space coding perspective, whilst allowing for the use of pow- erful families of binary codes with virtually any modulation format.

Bit-Interleaved Coded Modulation
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BIT-INTERLEAVED CODED MODULATION
Nowadays, more advanced CM systems usually insert a bit interleaver between the encoder and the modulator, so called bit-interleaved coded modulation (BICM). The CM system can also be extended to multiple-input multiple-output (MIMO) systems, consisting of several antennas at the transmitter and at the receiver.

Coded modulation | Chalmers
The performance of bit-interleaved coded modulation (BICM) with shaping (i.e., non-equiprobable bit probabilities) is studied. For the AWGN channel, the rates achievable with BICM and shaping are ...

(PDF) Bit-interleaved coded modulation with shaping
The bit interleavened coded modulation (BICM) method is used to achieve high bandwidth and power efficiency, while separating coding and modulation. The turbo-BICM method allows high coding ...

Bit-Interleaved Coded Modulation: Fundamentals, Analysis ...
Bit-interleaved coded modulation Abstract: It has been recognized by Zehavi (1992) that the performance of coded modulation over a Rayleigh fading channel can be improved by bit-wise interleaving at the encoder output, and by using an appropriate soft-decision metric as an input to a Viterbi (1990) decoder.

Bit-interleaved coded modulation - IEEE Journals & Magazine
We show that a hybrid system robust to these impairments is obtained by joint bit-interleaved coded modulation (BICM) of the bit steams transmitted over the RF and FSO sub-channels. An asymptotic performance analysis reveals that a properly designed convolutional code can exploit the diversity offered by the independent sub-channels.