

space time codes in keyhole channels: analysis and design - 2006 ieee transactions on wireless communications, vol. 6, no. 6, june 2007 space time codes in keyhole channels: analysis and design shahab sanayei, member, ieee, ahmadreza hedayat, member, ieee, and aria nosratinia, senior member, ieee abstract "the keyhole condition, where the mimo channel has only one degree of freedom, impairs the performance of

ieee transactions on information theory, vol. 52, no. 9 ... - has been done on designing space-time codes that are fully diverse. we focus here on linear dispersion space-time block codes (ld-stbcs), introduced in [21]. the idea of ld codes is to spread the information symbols over space and time. the linearity property of the ld-stbc enables the use of maximum-

embedded orthogonal space-time codes for high rate and low ... - codes called embedded-orthogonal space-time (eos) codes, defined for an arbitrary number of antennas and for any rate up to half the number of antennas. when compared to previously reported space-time codes, the proposed family of codes is lower in decoding complexity. furthermore, the proposed family of codes is better performing for certain ...

perfect space time block codes - arxiv - the coding gain is the second design criterion. extensive work has been done on designing space-time codes that are fully diverse. we focus here on linear dispersion space-time block codes (ld-stbc), introduced in [21]. the idea of ld codes is to spread the information symbols over space and time. the linearity property of the

on the criteria for designing complex orthogonal space ... - abstract a complex orthogonal design (cod) used in space-time block codes is a kind of combinatorial design. it has been well studied because it has a fast maximum-likelihood decoding algorithm and achieves full diversity. when designing cods, there are seven characteristics that should be considered, which include code

space-time codes for high data rate wireless communication ... - space-time codes for high data rate wireless communication: performance criterion and code construction vahid tarokh, member, ieee, nambi seshadri, senior member, ieee, and a. r. calderbank, fellow, ieee abstract "we consider the design of channel codes for improving the data rate and/or the reliability of communications

on the design of space-time and space-time frequency codes for ... - on the design of space-time and space-time frequency codes for mimo frequency-selective fading channels hesham el gamal, member, ieee, ... duration, which is the worst case in terms of designing full diversity codes [14]. a generalization to fractionally spaced taps will be the subject of future work.

perfect space time block codes - citeseerx - extensive work has been done on designing space-time codes that are fully diverse. we focus here on linear dispersion space-time block codes (ld-stbc), introduced in [21]. the idea of ld codes is to spread the information symbols over space and time. the linearity property of the ld-stbc enables the use of

orthogonal space-time block codes with sphere packing - designing the symbols in the orthogonal designs, the performance of the block codes can be significantly increased. keywords: multiple antennas, diversity product, multiple-input-multiple-output (mimo) systems, space-time block codes (stbcs), orthogonal designs, sphere packing. 1 introduction

super-orthogonal space-time trellis codes - information ... - of our knowledge, this is the first systematic way of designing space-time trellis codes. not only do we show how to design a space-time trellis code for a given rate and number of states, but also our general set-partitioning results provide the maximum

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