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an arbitrary
codeword $c =$
 $[x; y; z]: [xyz] \begin{matrix} 2 & 4 & 1 \\ 0 & 0 & 1 \\ 1 & 1 & 1 \\ 3 & 5 & \end{matrix} =$
 $[x+z; y+z]$ So, $c =$
 $[xyz]$ is a valid
codeword if $cHT =$
 0 , i.e. if $[y+z; x+z]$
 $= [0; 0]$. Algebraic
manipulations over
binary show
that $x=y=z$. Thus
the only valid
codewords are

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matrices, Gaussian

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introduction to the
basic elements of
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The term algebraic
coding theory

denotes the sub-
field of coding

theory where the

properties of codes

are expressed in

algebraic terms

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and then further researched.

[citation

needed]Algebraic

coding theory is

basically divided

into two major

types of codes:

[citation needed]

Linear block codes;

Convolutional

codes; It analyzes

the following three

properties of a

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code – mainly:
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... so the possible

data transmission

rate dropped to

only a fraction of

what was planned.

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The scientists at JPL reprogrammed the onboard computer to do more code processing of the data before transmission, and so were able to

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Pathfinder mission.
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probes have been
sending back

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Solutions 1. Convolutional code. A

simple

convolutional code

with rate $1/2$ has

encoding equations

$c_{1i} = m_i, c_{2i} =$

$m_i \oplus m_{i-1},$ where

m_i is an

information bit and

information bit and

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c_1, c_2 are the corresponding codeword bits. For example, $m_1m_2m_3 = 101$ is encoded to $c_1 c_2 c_1 c_2 c_1 c_2 c_1 c_2 c_1 c_2 c_1 c_2 = 110111$ (assuming that $m_0 = 0$). This code

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