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and the space time
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diversity. This paper
simulates the MIMO
system with different
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techniques. The
Simulink model of
MIMO system is
designed*

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emerging technology
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It considers antenna

coupling effects and

RF imperfections.

The simulation of the

system-level model

includes the RF

receiver baseband

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algorithms, RF
imperfections, and
the antenna array
radiation pattern. In
the following
sections, you will see
more details about the
transmitter, receiver,
and beamforming
algorithm.*

Modeling and
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Generally, smart antennas get into three major categories: single input, multiple output (SIMO), multiple input, single output (MISO), and multiple input, multiple output (MIMO). In SIMO technology, one

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*antenna is used at the
source, and two or
more antennas are
used at the
destination.*

*Smart Antenna
Systems Model
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This example shows
Multiple-Input-
Multiple-Output*
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*(MIMO) systems,
which use multiple
antennas at the
transmitter and
receiver ends of a
wireless
communication
system. MIMO
systems are
increasingly being
adopted in
communication
systems for the*

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potential gains in capacity they realize when using multiple antennas. Multiple antennas use the spatial dimension in addition to the time and frequency ones, without changing the bandwidth requirements of the system.

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*realistic simulated
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*planning for
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system level
simulation of a point-
to-point MIMO-
OFDM system***

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employing beamforming. The simulation models many system components such as encoding, transmit beamforming, precoding, multipath fading, channel estimation, equalization, and decoding. Reference

[1] Houman

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Zarrinkoub,
Understanding LTE
with MATLAB,
Wiley, 2014

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The Antenna
Company, a specialist
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*embedded antennas,
today announced a
new Wi-Fi 6E MIMO
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designed to increase
network capacity,
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reduce latency in
enterprise and
industrial IoT
networks. The
antenna system
enables simultaneous*

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*operation in the 2.4, 5
and 6 GHz frequency
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*hand hold positions
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*The measured
impedance bandwidth
for of the proposed
antenna is from 22.8
to 33.8 GHz, and the
simulation result
shows that the 3 dB*

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ARBW is from 28.77 to 33.5 GHz within the impedance bandwidth. The peak gain of the antenna is approximately 5 dBic within 3 dB ARBW.

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The simulation of the

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systems in simulink is
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*This example shows
Multiple-Input-
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Communication
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*beamforming. The
simulation models
many system*

*components such as
encoding, transmit
beamforming,
precoding, multipath
fading, channel
estimation,
equalization, and
decoding. Reference
[1] Housman
Zarrinkoub,*

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Wiley, 2014***

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& Simulink ...
The Antenna
Company, a specialist
in the design of high-
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embedded antennas,***

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today announced a new Wi-Fi 6E MIMO antenna system designed to increase network capacity, extend range and reduce latency in enterprise and industrial IoT networks. The antenna system enables simultaneous operation in the 2.4, 5

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*and 6 GHz frequency
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MIMO system
enables 2.4-, 5-, and
6-GHz operation with
UWB, BLE, and IoT
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