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...

A variation of
this design is
the hybrid
motor, which
combines a varia
ble-reluctance
motor with a

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stepper motor design. The primary difference is, in the stepper motor, the number of the rotor's permanent magnets (poles) increases to between 12 and 200 (30 o and 1.8 o

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respectively).
The more poles,
the greater the
rotational
resolution, but
more more poles
also lead to a
more expensive
design, as well
as providing
less torque.

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is a brushless,
synchronous
motor which
divides a full
rotation into a
number of steps.

Unlike a
brushless DC
motor which
rotates

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continuously
when a fixed DC
voltage is

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applied to it, a
step motor

rotates in

discrete step

angles. The

Stepper Motors

therefore are

manufactured

with steps per

revolution of

12, 24, 72, 144,

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180, and 200,

resulting in
stepping angles
of 30, 15, 5,

2.5, 2, and 1.8

degrees per

step.

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stepper motor is
an electromechan
ical device
which converts
electrical
pulses into
discrete

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movements. The shaft or spindle of a stepper

motor rotates in discrete step increments when electrical

command pulses are applied to it in the proper sequence. The

motors rotation has several

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relationships to
the applied
input pulses.

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Stepper motors
are DC motors
that move in
discrete steps.
They have

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multiple coils

that are

organized in

groups called

"phases". By

energizing each

phase in

sequence, the

motor will

rotate, one step

at a time. With

a computer

controlled

stepping you can

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achieve very
precise
positioning
and/or speed
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or a step motor
is a brushless,

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motor, which
divides a full
rotation into a
number of steps.
Unlike a
brushless DC
motor, which
rotates
continuously
when a fixed DC
voltage is
applied to it, a
step motor

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rotates in discrete step angles. The Stepper Motors therefore are manufactured with steps per revolution of 12, 24, 72, 144, 180, and 200, resulting in stepping angles of 30, 15, 5, 2.5, 2, and 1.8

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degrees per
step.

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text which will
enable the

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reader to appreciate the
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of stepping

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and understand

how these

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are being

exploited in the

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approach to the
subject using
many informative
diagrams to
explain the
motor's working
principles,
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several aspects

and types of

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