

Mechatronics definitions

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|---|--|---|
| Synergistic integration of mechanical engineering with electronics and electrical systems with intelligent computer control | Cross-disciplinary field involving mechanics, electronics, and control of computer-integrated EM systems | Integration of electronics, control engineering, and mechanical engineering |
|---|--|---|

Measurement Systems Components

| | | |
|------------|---------------|----------|
| Transducer | Signal Procc. | Recorder |
|------------|---------------|----------|

Amp. Linearity

$$V_{out}(t) - V_{out}(0) = \alpha(V_{in}(t) - V_{in}(0))$$

1. Difficult to interpret non-linear
2. System satisfies linearity over range
3. Linear response holds for limited range
4. Ideal system = linearity for any amp and rate

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Not published yet.

Last updated 22nd April, 2022.

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