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DESCRIPTORS: *Masers, *Quantum mechanics, Mass-
energy relation, Mass spectrum, Electrons, Atoms,
Integral transforms, Blackbody radiation, Electromag-
netic fields, Atomic energy levels, *Paramagnetism,
Paramagnetic resonance, Bandwidth, Circuits, Equa-
tions, *Microwave amplifiers, Electron transitions.

The present paper is designed to present a survey of
the concepts and ideas which are encountered in the
treatment of masers. To a great extent these concepts
are taken from quantum mechanics and the engineer
usually is not at all or only little familiar with them. If
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- II. AERDL T-1656
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