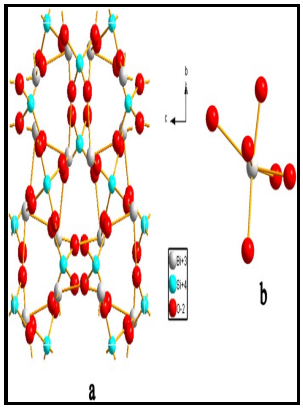
Phosphor handbook.

CRC Press/Taylor and Francis - Phosphor Handbook (Laser and Optical Science and Technology), Shionoya, Shigeo, Yen, William M., Yamamoto, Hajime, eBook



Description: -
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Phosphors -- Industrial applications -- Handbooks, manuals, etc
Phosphors -- Handbooks, manuals, etcPhosphor handbook.
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The CRC Press laser and optical science and technology seriesPhosphor handbook.
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They cover common measurement methodology used to characterize phosphor properties, discuss a number of related items, and conclude with the history of phosphor technology and industry. Figure 10 Energy level diagram for the d2 configuration.

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Therefore, the assumption in crystal field theory that expansion of the 3d orbitals may be negligibly small does not strictly hold.

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In particular, for tunable lasers working in the far-red to infrared regions, the optical properties of various ions—d1 Ti3+, V4+ ; d2 V3+, Cr4+, Mn5+, Fe6+ ; d3 V2+, Cr3+, Mn4+ ; d4 Mn3+ ; d5 Mn2+, Fe3+ ; d7 Co2+ ; and d8 Ni2+ —have been investigated in terms of Tanabe-Sugano diagrams with considerable success. The handbook provides a comprehensive description of phosphors with an emphasis on practical phosphors and their uses in various kinds of technological applications. However, in energy regions e.

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However, in this case also, they can be partly allowed, since different spin wavefunctions may be slightly mixed by means of the spin-orbit interaction.

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In fact, some 3d electrons are known to exist even at the positions of the nuclei of the ligands as determined by ESR and NMR experiments. It is argued that 1 the band energy is lower as the electrone- gativity of the ligands decreases, and 2 it is reduced as the valency increases for cations

having the same number of electrons. On the other hand, a magnetic dipole produced by the oscillating magnetic field of light has even parity, and transitions between dn levels are allowed via this mechanism.

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