

Infrared Thermography: electrical and industrial applications

By Davide Lanzoni

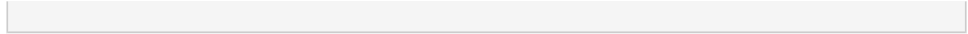


Infrared Thermography: electrical and industrial applications By Davide Lanzoni

The volume is a theoretical and practical manual for thermographic inspections in electrical and industrial field. It contains 230 pages of theory and practical informations about guidelines, criteria, applications in electrical and industrial surveys. In the early chapters the book provides the physical basis of thermography, the technical characteristics of the cameras and their meanings, and the basic measurement techniques (emissivity, reflected ambient temperature, transmissivity). We then move on to the examination of the main applications in the electrical and industrial, where thermography is covering an increasingly important as a technique of predictive maintenance. Through it possible investigations into the electrical connections, phase imbalances, overloads, loss of isolation and physical damage to the conductors, the normal plants in the low voltage transformer substations. Are also possible investigations on electric motors, where you can find not only the loss of insulation in the windings but also imbalances and other mechanical problems. Other applications, of growing interesting, concern photovoltaic systems and data centers. In other industries we examine the applications in the chemical and petrochemical industries, and in general in industrial process control. The book contains many pictures of real cases and references to foreign technical standards, with criteria for classifying the severity of thermal anomalies and mathematical examples of application: in the US thermography technique has been recognized as valid by the NFPA (National Fire Protection Agency) for preventing fires of electrical origin, and the major insurance companies promote the application of thermography surveys. Other chapter covers miscellaneous applications such detecting corrosion under insulation, faults in steam traps, measuring furnace tubes, gas leak detection, refractory damage, checking level in vessels, temperature control in moulds, inspecting fiberglass and wooden boats for osmosis and humidity.

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Editorial Review

About the Author

Davide Lanzoni is an engineer certified at level 3 EN ISO 9712 in thermography and performs both thermographic inspections and training courses as a free lance

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