

Fig. 3-1 General Failure Analysis Procedure

The equipment outline and principle are typical and have been described in various documents, so these descriptions are omitted here.

3.3.6.3 New Technologies that have Begun to be Used in Recent Years

(1) Scanning SQUID (Superconducting QUantum Interference Device) Microscope Analysis

SQUID is the abbreviation for an ultra-sensitive magnetic sensor that uses the superconducting quantization phenomenon. SQUID has far greater sensitivity than conventional magnetic sensors, and can detect weak magnetic fields on the order of 1/50,000,000 of terrestrial magnetism or less.

It is known that a magnetic field is generated around flowing current. (See Fig. 3-5.) As described above, SQUID uses an ultra-sensitive magnetic sensor, so it can detect the magnetic fields generated by currents.

The currents flowing inside a semiconductor device can be observed by using the obtained magnetic field

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