

3 Thermal Design Examples

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Introduction

The purpose of a thermal-control system is to maintain all of a spacecraft's components within the allowable temperature limits for all operating modes of the vehicle, in all of the thermal environments it may be exposed to (i.e., those discussed in Chapter 2). To illustrate how thermal control is achieved, this chapter describes some typical thermal designs. While these designs are currently in wide use, they are not the only possible thermal designs for the spacecraft and components examined here, and creative alternative solutions to thermal design problems are always desirable. The designs described in the following discussions should therefore be considered examples only.

Establishing a thermal design for a spacecraft is usually a two-part process. The first step is to select a thermal design for the body, or basic enclosures, of the spacecraft that will serve as a thermal sink for all internal components. The second step is to select thermal designs for various components located both within and outside the spacecraft body. The following sections give a qualitative description of typical designs. For a more detailed discussion of the design-selection process and the thermal analysis required to verify a design, see Chapter 15, "Thermal Design Analysis."

Spin-Stabilized Satellites

Of all the thermal designs for spin-stabilized satellites ("spinners"), the most common is the one typified by Defense Satellite Communications System (DSCS) II, Satellite Data Systems, North Atlantic Treaty Organization (NATO) II, and a host of commercial communication satellites. The design approach is to use the spinning solar array as a heat sink for the internal components. A cylinder spinning with the sun normal to the spin axis will be close to room temperature if the ratio of solar absorption to infrared (IR) emittance (α/ϵ) is near 1.0, as is the approximate case with the solar cells that cover the cylinder. Because of its temperature, the spinning solar array makes a convenient heat sink for internal components.

Figure 3.1 illustrates the thermal balance in a typical spinning satellite. Electronics boxes, usually mounted on shelves, radiate their heat to the solar array and sometimes also to the forward or aft ends of the satellite if extra radiator area is required. The electronics boxes are typically painted black for high IR emittance

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