**Appendix A. Additional data**

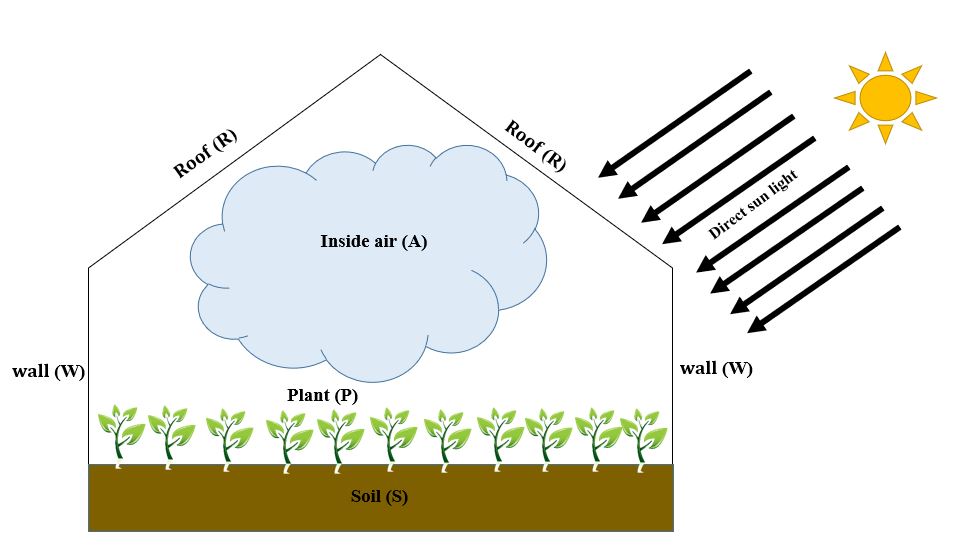
This appendix includes tables of supporting data.

**Table A.1.** Calculated view factors.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Value | View factor | Value | View factor | Value | View factor |
| 0.53 |  | 0.44 |  | 0.237 |  |
| 0.235 |  | 0.3 |  | 0.763 |  |
| 0.235 |  | 0.13 |  | 1 |  |
| 0.271 |  | 0.13 |  | 0.427 |  |
| 0.134 |  | 0.44 |  | 0.47 |  |
| 0.461 |  | 0.47 |  | 0.45 |  |
| 0.134 |  | 0.01 |  | 0.08 |  |
|  |  | 0.08 |  | 0.573 |  |

**Appendix B. Supporting equations**

This appendix includes the energy balance equations for the greenhouse without thermal screen. Figure B.1 illustrates a schematic representation of the greenhouse without thermal screen. The following equations represent the energy balance for different components of the greenhouse.



**Fig. B.1.** Greenhouse Schematic without thermal screen.

The energy balance for the roof is evaluated as follows:

**B.1. Roof**

The following equation represents the energy balance for the wall:

**B.2. Wall**

The following equation represents the energy balance for the soil surface:

**B.3. Soil surface**

The energy balance for the plant is evaluated as follows:

**B.4. Plant**

The energy balance for the inside air is evaluated as follows:

**B.5. Inside air**