

## Block FPARAP

The F90P block calculates the radiation shape factor of two parallel displaced rectangles without a common edge.



FPARAP

|                   |        |
|-------------------|--------|
| <b>Name</b>       | FPARAP |
| <b>Function</b>   | bs0019 |
| <b>Inputs</b>     | 0      |
| <b>Outputs</b>    | 2      |
| <b>Parameters</b> | 9      |
| <b>Strings</b>    | 0      |
| <b>Group</b>      | C      |

### Inputs

None

### Outputs

- 1 Radiation shape factor  $F_{1 \rightarrow 2}$
- 2 Radiation shape factor  $F_{2 \rightarrow 1}$

### Parameters

- 1  $x$ -coordinate displacement  $x_1$  of area 1 (sender)
- 2  $x_2$  coordinate of area 1 (width  $+x_1$ )
- 3  $y$ -coordinate displacement  $y_1$  of area 1 (sender)
- 4  $y_2$  coordinate of area 1 (depth  $+y_1$ )
- 5  $x$ -coordinate displacement  $x_1$  of area 2 (receiver)
- 6  $x_2$  coordinate of area 2 (width  $+x_1$ )
- 7  $y$ -coordinate displacement  $y_1$  of area 2 (receiver)
- 8  $y_2$  coordinate of area 2 (depth  $+y_1$ )
- 9 Distance  $z$  between the parallel planes

### Strings

None