```
        % For example: if min_T_styles = 2, the left most two type columns
        % are set to hold only transmitters numbers less than the
        % upper variable
        if i <= min_t_styles
            ub(num_parameters*i-step) = upper;
        else ub(num_parameters*i-step) = 3;
        end % end if/else transmitters

        % Recievers are controlled on lower bound starting from right
        % to left.
        % For example: if min_R_styles = 2, the right most two type columns
        % are set ti hold only receiver numbers greater than the lower
        % variable

        if i <= min_r_styles
            lb(num_styles*num_parameters-i*num_parameters+1) = lower;
        end % end if receivers


        % Setting lower and upper values for Quantity columns
        % Received as arguments to the bounding function from
        % the radar optimization function.
        % Received as arguments to the radar_optimization
        % function from the main_live_script (set by user).
        step = num_parameters-2;
        lb(num_parameters*i-step) = min_quantity;
        ub(num_parameters*i-step) = max_quantity;


        % Setting lower and upper values for Diameter columns
        % Received as arguments to the bounding function from
        % the radar optimization function.
        % Received as arguments to the radar_optimization
        % function from the main_live_script (set by user).
        step = num_parameters-3;
        lb(num_parameters*i-step) = min_diameter;
        ub(num_parameters*i-step) = max_diameter;

        % Setting lower and upper values for Power columns
        % Received as arguments to the bounding function from
        % the radar optimization function.
        % Received as arguments to the radar_optimization
        % function from the main_live_script (set by user).
        step = num_parameters-4;
        lb(num_parameters*i-step) = min_power;
        ub(num_parameters*i-step) = max_power;

    end % end for i = 1:number_of_styles

end %function [lb,ub ]= bounding()


% ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
% objectiveFunction Definition
```