1. Dilarang mengutip sebagian atau seluruh Undang-Undang
2. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan studi tidak dalam bentuk apapun tanpa izin IPB.

LAMPIRAN
1. Dilarang mengungkapkan dan memperlihatkan informasi atau fakta lainnya di luar komunitas agropolitan zona ini IPB.
2. Pengungkapan fakta mengenai informasi yang wajar IPB.
3. Pengungkapan informasi tentang penerapan praktek, penelitian, pengembangan, penelitian keuangan, penelitian keuangan pertanian, penelitian pertanian, penelitian pertanian lebih, dan penelitian pertanian lebih maslahat.
4. Hak cipta dipindungi Undang-Undang.
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## Lampiran 6. Pengaturan Properti Komponen Figure Lima Layer Periodik

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<td>34.</td>
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<td>10</td>
<td>On</td>
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<td>35.</td>
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<td>out_push</td>
<td>OUT</td>
<td>point</td>
<td>Bold</td>
<td>10</td>
<td>On</td>
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</table>
1. Dilihat mengubahsamaan dua matriks operasi aksi seluas kurang lebih di dalam bentuk operasi lampu ini.

2. Dilihat mengubahsamaan dua matriks operasi aksi seluas kurang lebih di dalam bentuk operasi lampu ini.

3. Dilihat mengubahsamaan dua matriks operasi aksi seluas kurang lebih di dalam bentuk operasi lampu ini.
Lampiran 11. sintaks bahasa pemrograman interface menu utama

function varargout = Finish(varargin)
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...    'gui_Singleton', gui_Singleton, ...    'gui_OpeningFcn', @Finish_OpeningFcn, ...    'gui_OutputFcn', @Finish_OutputFcn, ...    'gui_LayoutFcn', [], ...    'gui_Callback', []);
if nargin && ischar(varargin{1})
gui_State.gui_Callback = str2func(varargin{1});
end
if nargout
[varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT
% --- Executes just before Finish is made visible.
function Finish_OpeningFcn(hObject, eventdata, handles, varargin)
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% varargin   command line arguments to Finish (see VARARGIN)
% Choose default command line output for Finish
handles.output = hObject;
% Update handles structure
guidata(hObject, handles);
% UIWAIT makes Finish wait for user response (see UIRESUME)
% uiwait(handles.figure1);
% --- Outputs from this function are returned to the command line.
function varargout = Finish_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get default command line output from handles structure
varargout{1} = handles.output;
% --- Executes on button press in one_push.
function one_push_Callback(hObject, eventdata, handles)
% hObject    handle to one_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
satu;
Lanjutan lampiran 11

```matlab
function two_push_Callback(hObject, eventdata, handles)
% hObject    handle to two_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

dua;

function Three_push_Callback(hObject, eventdata, handles)
% hObject    handle to Three_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

three;

function four_push_Callback(hObject, eventdata, handles)
% hObject    handle to four_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

four;

function five_push_Callback(hObject, eventdata, handles)
% hObject    handle to five_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
five;

function geoas_push_Callback(hObject, eventdata, handles)
% hObject    handle to geoas_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
defectgeometrisas;

function indexas_push_Callback(hObject, eventdata, handles)
% hObject    handle to indexas_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
defectindexrefractionas;

function geo_push_Callback(hObject, eventdata, handles)
% hObject    handle to geo_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
defectgeometris;
```
Lanjutan lampiran 11

% --- Executes on button press in index_push.
function index_push_Callback(hObject, eventdata, handles)
% hObject    handle to index_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
defectindexrefraction;

% --- Executes on button press in exit_push.
function exit_push_Callback(hObject, eventdata, handles)
% hObject    handle to exit_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
close;
Lampiran 12. sintaks bahasa pemrograman interface satu layer periodik

```matlab
function varargout = satu(varargin)

    gui_Singleton = 1;
    gui_State = struct('gui_Name',       mfilename, ...
                        'gui_Singleton',  gui_Singleton, ...
                        'gui_OpeningFcn', @satu_OpeningFcn, ...
                        'gui_OutputFcn',  @satu_OutputFcn, ...
                        'gui_LayoutFcn',  [], ...
                        'gui_Callback',   []);

    if nargin && ischar(varargin{1})
        gui_State.gui_Callback = str2func(varargin{1});
    end

    if nargout
        [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
    else
        gui_mainfcn(gui_State, varargin{:});
    end

end

% --- Executes just before satu is made visible.
function satu_OpeningFcn(hObject, eventdata, handles, varargin)

    % Choose default command line output for satu
    handles.output = hObject;

    % Update handles structure
    guidata(hObject, handles);
    set(hObject.figure1)

    % UIWAIT makes satu wait for user response (see UIRESUME)
    uiwait(hObject.figure1);

    % --- Outputs from this function are returned to the command line.
    function varargout = satu_OutputFcn(hObject, eventdata, handles)
    % varargout cell array for returning output args (see VARARGOUT);
    % hObject handle to figure
    % eventdata reserved - to be defined in a future version of MATLAB
    % handles structure with handles and user data (see GUIDATA)

    % Get default command line output from handles structure
    varargout{1} = handles.output;
```
Lanjutan lampiran 12

% --- Executes on button press in process_push.
function process_push_Callback(hObject, eventdata, handles)
% hObject    handle to process_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
%           MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get user input from GUI
n=str2num(get(handles.En,'String'));
a=str2num(get(handles.Ed,'String'))*10^(-6);
N=str2num(get(handles.EN,'String'));
H=str2num(get(handles.EH,'String'));
B=str2num(get(handles.EB,'String'));

% Calculate data
x=H:0.001:B;
n0=1;
c=3*10^8;
D=(a*n)/a;
w0=(c*pi)/(D*a);
w=x*w0;
p0=0;
p1=asin((n0/n)*sin(p0));
k1=cos(p1)*(w*n)/c;
m=length(x);
for j=1:1:m
    D0=[cos(p0) cos(p0);n0 -n0];
    D1=[cos(p1) cos(p1);n -n];
    P1=[exp(i*k1(j)*a) 0;0 exp(-i*k1(j)*a)];
    U=inv(D0)*D1*P1*inv(D1)*D0;
    S=U^N;
    Q=S(1,1);
    V=1/Q;
    G=conj(V)*V;
    T(j)=abs(G);
end

% Create Transmittance plot
axes(handles.axes1)
plot(x,T)
xlabel('w/w0')
ylabel('T')
title('Normalized Frequency vs Transmittance')
set(handles.axes1)
grid on
hold on
guidata(hObject,handles)

% --- Executes on button press in reset_push.
function reset_push_Callback(hObject, eventdata, handles)
% hObject    handle to reset_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
%           MATLAB
% handles    structure with handles and user data (see GUIDATA)
cla(handles.axes1,’reset’)
guidata(hObject,handles);
Lanjutan lampiran 12

```matlab
% --- Executes on button press in out_push.
function out_push_Callback(hObject, eventdata, handles)
    % hObject    handle to out_push (see GCBO)
    % eventdata  reserved - to be defined in a future version of
    % MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    close;
    function EH_Callback(hObject, eventdata, handles)
        % hObject    handle to EH (see GCBO)
        % eventdata  reserved - to be defined in a future version of
        % MATLAB
        % handles    structure with handles and user data (see GUIDATA)
        % Hints: get(hObject,'String') returns contents of EH as text
        %        str2double(get(hObject,'String')) returns contents of EH as a double
        input=str2num(get(hObject,'String')); if (isempty(input))
            set(hObject,'String','0')
        end
        guidata(hObject,handles);
    end
    function EH_CreateFcn(hObject, eventdata, handles)
        % hObject    handle to EH (see GCBO)
        % eventdata  reserved - to be defined in a future version of
        % MATLAB
        % handles    empty - handles not created until after all
        % CreateFcns called
        % Hint: edit controls usually have a white background on Windows.
        % See ISPC and COMPUTER.
        if ispc & isequal(get(hObject,'BackgroundColor'),
            get(0,'defaultUicontrolBackgroundColor'))
            set(hObject,'BackgroundColor','white');
        end
        function EB_Callback(hObject, eventdata, handles)
            % hObject    handle to EB (see GCBO)
            % eventdata  reserved - to be defined in a future version of
            % MATLAB
            % handles    structure with handles and user data (see GUIDATA)
            % Hints: get(hObject,'String') returns contents of EB as text
            %        str2double(get(hObject,'String')) returns contents of EB as a double
            input=str2num(get(hObject,'String')); if (isempty(input))
                set(hObject,'String','0')
            end
            guidata(hObject,handles);
```
Lanjutan lampiran 12

% --- Executes during object creation, after setting all properties.
function EB_CreateFcn(hObject, eventdata, handles)
% hObject    handle to EB (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function En_Callback(hObject, eventdata, handles)
% hObject    handle to En (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of En as text
% str2double(get(hObject,'String')) returns contents of En
%        as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function En_CreateFcn(hObject, eventdata, handles)
% hObject    handle to En (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function Ed_Callback(hObject, eventdata, handles)
    % hObject    handle to Ed (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    % Hints: get(hObject,'String') returns contents of Ed as text
    % str2double(get(hObject,'String')) returns contents of Ed as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);
end

function EN_Callback(hObject, eventdata, handles)
    % hObject    handle to EN (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    % Hints: get(hObject,'String') returns contents of EN as text
    % str2double(get(hObject,'String')) returns contents of EN as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);
end
Lampiran 13. sintaks bahasa pemrograman interface dua layer periodik

function varargout = dua(varargin)
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
    'gui_Singleton', gui_Singleton, ...
    'gui_OpeningFcn', @dua_OpeningFcn, ...
    'gui_OutputFcn', @dua_OutputFcn, ...
    'gui_LayoutFcn', [], ...
    'gui_Callback', []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end

% End initialization code - DO NOT EDIT

% --- Executes just before dua is made visible.
function dua_OpeningFcn(hObject, eventdata, handles, varargin)
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of
%    MATLAB
% handles    structure with handles and user data (see GUIDATA)
% varargin   command line arguments to dua (see VARARGIN)

% Choose default command line output for dua
handles.output = hObject;

% Update handles structure
guidata(hObject, handles);

% UIWAIT makes dua wait for user response (see UIRESUME)
% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.
function varargout = dua_OutputFcn(hObject, eventdata, handles)
% varargout cell array for returning output args (see VARARGOUT);
% hObject handle to figure
% eventdata reserved - to be defined in a future version of
%    MATLAB
% handles structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure
varargout{1} = handles.output;
% --- Executes on button press in process_push.
function process_push_Callback(hObject, eventdata, handles)
% hObject    handle to process_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get user input from GUI
n1=str2num(get(handles.En1,'String')); 
n2=str2num(get(handles.En2,'String')); 
a=str2num(get(handles.Ed1,'String'))*10^(-6); 
b=str2num(get(handles.Ed2,'String'))*10^(-6); 
N=str2num(get(handles.EN,'String')); 
H=str2num(get(handles.EH,'String')); 
B=str2num(get(handles.EB,'String')); 

% Calculate data
x=H:0.001:B; 
n0=1; 
c=3*10^8; 
L=a+b; 
n=((a*n1)+(b*n2))/L; 
w0=(c*pi)/(n*L); 
w=x*w0; 
p0=0; 
p1=asin((n0/n1)*sin(p0)); 
p2=asin((n1/n2)*sin(p1)); 
k1=cos(p1)*(w*n1)/c; 
k2=cos(p2)*(w*n2)/c; 
m=length(x); 
for j=1:1:m 
   D0=[cos(p0) cos(p0);n0 -n0]; 
   D1=[cos(p1) cos(p1);n1 -n1]; 
   D2=[cos(p2) cos(p2);n2 -n2]; 
   P1=exp(-i*k1(j)*a) 0 0 exp(-i*k1(j)*a)]; 
   P2=exp(i*k2(j)*b) 0 0 exp(i*k2(j)*b)]; 
   U=P1*inv(D1)*D2*P2*inv(D2)*D1; 
   S=inv(D0)*D1*(U^N)*P1*inv(D1)*D0; 
   Q=S(1,1); 
   V=1/Q; 
   G=conj(V)*V; 
   T(j)=abs(G); 
end

% Create Transmittance plot 
axes(handles.axes1) 
plot(x,T) 
xlabel('') 
ylabel('') 
title('') 
set(handles.axes1) 
grid on 
hold on 
guidata(hObject,handles)
Lanjutan lampiran 13

% --- Executes on button press in reset_push.
function reset_push_Callback(hObject, eventdata, handles)
% hObject    handle to reset_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
cla(handles.axes1,'reset')
guida(hObject,handles);

% --- Executes on button press in out_push.
function out_push_Callback(hObject, eventdata, handles)
% hObject    handle to out_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)
close;

function EH_Callback(hObject, eventdata, handles)
% hObject    handle to EH (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Hints: get(hObject,’String’) returns contents of EH as text
%         str2double(get(hObject,’String’)) returns contents of EH
% as a double
input=str2num(get(hObject,’String’));
if (isempty(input))
    set(hObject,’String’,’0’)
end
guida(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function EH_CreateFcn(hObject, eventdata, handles)
% hObject    handle to EH (see GCBO)
% eventdata  reserved - to be defined in a future version of
MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc & isequal(get(hObject,’BackgroundColor’),
    get(0,’defaultUicontrolBackgroundColor’))
    set(hObject,’BackgroundColor’,’white’);
end
Lanjutan lampiran 13

function EB_Callback(hObject, eventdata, handles)
    % hObject    handle to EB (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)

    % Hints: get(hObject,'String') returns contents of EB as text
    % str2double(get(hObject,'String')) returns contents of EB as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function EB_CreateFcn(hObject, eventdata, handles)
    % hObject    handle to EB (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    empty - handles not created until after all CreateFcns called

    % Hint: edit controls usually have a white background on Windows.
    % See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
                      get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function En1_Callback(hObject, eventdata, handles)
    % hObject    handle to En1 (see GCBO)
    % eventdata  reserved - to be defined in a future version of MATLAB
    % handles    structure with handles and user data (see GUIDATA)

    % Hints: get(hObject,'String') returns contents of En1 as text
    % str2double(get(hObject,'String')) returns contents of En1 as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);
Lanjutan lampiran 13

% --- Executes during object creation, after setting all properties.
function En1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to En1 (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function En2_Callback(hObject, eventdata, handles)
% hObject    handle to En2 (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of En2 as text
% str2double(get(hObject,'String')) returns contents of En2
% as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function En2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to En2 (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
Lanjutan lampiran 13

```matlab
function Ed1_Callback(hObject, eventdata, handles)
% hObject    handle to Ed1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of Ed1 as text
% str2double(get(hObject,'String')) returns contents of Ed1 as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);
```

```matlab
function Ed2_Callback(hObject, eventdata, handles)
% hObject    handle to Ed2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of Ed2 as text
% str2double(get(hObject,'String')) returns contents of Ed2 as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);
```
Lanjutan lampiran 13

% --- Executes during object creation, after setting all properties.
function Ed2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to Ed2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function EN_Callback(hObject, eventdata, handles)
% hObject    handle to EN (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of EN as text
% str2double(get(hObject,'String')) returns contents of EN
% as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0');
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function EN_CreateFcn(hObject, eventdata, handles)
% hObject    handle to EN (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
Lampiran 14. sintaks bahasa pemrograman interface defek geometris simetrik

function varargout = defectgeometris(varargin)
    gui_Singleton = 1;
    gui_State = struct('gui_Name', mfilename, ...
                        'gui_Singleton', gui_Singleton, ...
                        'gui_OpeningFcn', @defectgeometris_OpeningFcn,
                        ...
                        'gui_OutputFcn', @defectgeometris_OutputFcn,
                        ...
                        'gui_LayoutFcn', [], ...
                        'gui_Callback', []);
    if nargin && ischar(varargin{1})
        gui_State.gui_Callback = str2func(varargin{1});
    end
    if nargout
        [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
    else
        gui_mainfcn(gui_State, varargin{:});
    end

% --- Executes just before defectgeometris is made visible.
function defectgeometris_OpeningFcn(hObject, eventdata, handles, varargin)
    % Choose default command line output for defectgeometris
    handles.output = hObject;
    % Update handles structure
    guidata(hObject, handles);
    % --- Outputs from this function are returned to the command line.
    function varargout = defectgeometris_OutputFcn(hObject, eventdata, handles)
        varargout{1} = handles.output;
    end

% --- Executes on button press in process_push.
function process_push_Callback(hObject, eventdata, handles)
    % hObject    handle to process_push (see GCBO)
    % eventdata  reserved - to be defined in a future version of
    % MATLAB
    % handles    structure with handles and user data (see GUIDATA)
    % Get user input from GUI
    n0=str2num(get(handles.En0,'String'));
    n1=str2num(get(handles.En1,'String'));
    n2=str2num(get(handles.En2,'String'));
    q0=str2num(get(handles.Ep0,'String'));
    a=str2num(get(handles.Ed1,'String'))*10^(-6);
    b=str2num(get(handles.Ed2,'String'))*10^(-6);
    d=str2num(get(handles.Ed3,'String'))*10^(-6);
    N=str2num(get(handles.EN,'String'));
    S=str2num(get(handles.ES,'String'));
    H=str2num(get(handles.EH,'String'));
    B=str2num(get(handles.EB,'String'));

Lanjutan lampiran 14

% Calculate Data
x=H:0.001:B;
c=3*10^8;
L=a+b;
n=1/(a*n1+(b*n2))/L;
w0=(c*pi)/(n*L);
w=x*w0;
p0=q0*pi/180;
p1=asin((n0/n1)*sin(p0));
pl0=asin((n1/n2)*sin(p1));
k0=cos(p0)*((w*n0)/c);
k1=cos(p1)*((w*n1)/c);
k2=cos(p2)*((w*n2)/c);
m=length(x)
for j=1:1:m
    D0=[1 1;k0(j) -k0(j)];
    D1=[1 1;k1(j) -k1(j)];
    D2=[1 1;k2(j) -k2(j)];
    P1=exp(i*k1(j)*a) 0 0 exp(-i*k1(j)*a);
    p2=exp(i*k2(j)*b) 0 0 exp(-i*k2(j)*b);
    P3=exp(i*k1(j)*d) 0 0 exp(-i*k1(j)*d);
    MB=P1*inv(D1)*D2*P2*inv(D2)*D1;
    MD=P1*inv(D1)*D2*P2*inv(D2)*D1*P3*inv(D1)*D2*P2*inv(D2)*D1;
    Y=((MB^S)*MD)^N;
    Z=inv(D0)*D1*Y*(MB^S)*P1*inv(D1)*D0;
    Q=Z(1,1);
    V=1/Q;
    G=conj(V)*V;
    T(j)=abs(G);
end

% Create Transmittance plot
axes(handles.axes1)
plot(x,T)
xlabel('')
ylabel('')
title('')
set(handles.axes1)
grid on
hold on
guida(hObject,handles)
% --- Executes on button press in reset_push.
function reset_push_Callback(hObject, eventdata, handles)
cla(handles.axes1,'reset')
guida(hObject,handles);

% --- Executes on button press in out_push.
function out_push_Callback(hObject, eventdata, handles)
close;
function EH_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guida(hObject,handles);
Lanjutan lampiran 14

% --- Executes during object creation, after setting all properties.
function EB_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function EB_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function Ed1_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ed1_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function Ed2_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ed2_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function Ed2_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
Lanjutan lampiran 14

function Ed3_Callback(hObject, eventdata, handles)
    input = str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function Ed3_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUiControlBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function EN_Callback(hObject, eventdata, handles)
    input = str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function EN_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUiControlBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function ES_Callback(hObject, eventdata, handles)
    input = str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function ES_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUiControlBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function En1_Callback(hObject, eventdata, handles)
    input = str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);
Lanjutan lampiran 14

% --- Executes during object creation, after setting all properties.
function En1_CreateFcn(hObject, eventdata, handles)
if ispc & isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function En2_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function En2_CreateFcn(hObject, eventdata, handles)
if ispc & isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ep0_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function Ep0_CreateFcn(hObject, eventdata, handles)
if ispc & isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function En0_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function En0_CreateFcn(hObject, eventdata, handles)
if ispc & isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
Lampiran 15. sintaks bahasa pemrograman interface defek indeks bias simetrik

```matlab
function varargout = defectindexrefraction(varargin)
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ... 'gui_Singleton', gui_Singleton, ... 'gui_OpeningFcn', @defectindexrefraction_OpeningFcn, ... 'gui_OutputFcn', @defectindexrefraction_OutputFcn, ... 'gui_LayoutFcn', [], ... 'gui_Callback', []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end
if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT

% --- Executes just before defectindexrefraction is made visible.
function defectindexrefraction_OpeningFcn(hObject, eventdata, handles, varargin)
% Choose default command line output for defectindexrefraction
handles.output = hObject;
% Update handles structure
guidata(hObject, handles);
% --- Outputs from this function are returned to the command line.
function varargout = defectindexrefraction_OutputFcn(hObject, eventdata, handles)
varargout{1} = handles.output;
% --- Executes on button press in process_push.
function process_push_Callback(hObject, eventdata, handles)
% hObject    handle to process_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get user input from GUI
n0=str2num(get(handles.En0,'String'));
n1=str2num(get(handles.En1,'String'));
n2=str2num(get(handles.En2,'String'));
n3=str2num(get(handles.En3,'String'));
q0=str2num(get(handles.Ed1,'String'));
a=str2num(get(handles.Ed2,'String'))*10^(-6);
b=str2num(get(handles.Ed2,'String'))*10^(-6);
N=str2num(get(handles.EN,'String'));
S=str2num(get(handles.ES,'String'));
H=str2num(get(handles.EH,'String'));
B=str2num(get(handles.EB,'String'));
```
Lanjutan lampiran 15

% Calculate Data
x=H:0.001:B;
c=3*10^8;
A0=4*n1*a;
w0=2*pi*c/A0;
w=x*w0;
p0=0*pi/180;
p1=asin((n0/n1)*sin(p0));
p2=asin((n1/n2)*sin(p1));
p3=asin((n2/n3)*sin(p2));
k0=cos(p0)*(w*n0)/c;
k1=cos(p1)*(w*n1)/c;
k2=cos(p2)*(w*n2)/c;
k3=cos(p3)*(w*n3)/c;
m=length(x)
for j=1:m
    D0=[1 1;k0(j) -k0(j)];
    D1=[1 1;k1(j) -k1(j)];
    D2=[1 1;k2(j) -k2(j)];
    D3=[1 1;k3(j) -k3(j)];
    P1=[exp(i*k1(j)*a) 0;0 exp(-i*k1(j)*a)];
    P2=[exp(i*k2(j)*b) 0;0 exp(-i*k2(j)*b)];
    P3=[exp(i*k3(j)*a) 0;0 exp(-i*k3(j)*a)];
    MB=P1*inv(D1)*D2*P2*inv(D2)*D1;
    MD=P1*inv(D1)*D2*P2*inv(D2)*P3*inv(D3)*D2*P2*inv(D2)*D1;
    Y=((MB^S)*MD)^N;
    Z=inv(D0)*D1*Y*(MB^S)*P1*inv(D1)*D0;
    Q=Z(1,1);
    V=1/Q;
    G=conj(V)*V;
    T(j)=abs(G);
end

% Create Transmittance plot
axes(handles.axes1)
plot(x,T)
xlabel('')
ylabel('')
title('')
grid on
hold on
guidata(hObject,handles)

% --- Executes on button press in reset_push.
function reset_push_Callback(hObject, eventdata, handles)

% hObject    handle to reset_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
cla(handles.axes1,'reset')
guidata(hObject,handles);
function out_push_Callback(hObject, eventdata, handles)
    hObject    handle to out_push (see GCBO)
    eventdata  reserved - to be defined in a future version of
    MATLAB
    handles    structure with handles and user data (see GUIDATA)
end

function EH_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);

function EH_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function EB_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);

function EB_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundcolor'))
        set(hObject,'BackgroundColor','white');
    end

function Ed1_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);

function Ed1_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set (hObject,'String','0')
    end
    guidata(hObject,handles);
Lanjutan lampiran 15

% --- Executes during object creation, after setting all properties.
function Ed1_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ed2_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function Ed2_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function EN_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function EN_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function ES_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function ES_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
Lanjutan lampiran 15

function En1_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function En1_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUiControlBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function En2_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function En2_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUiControlBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function En3_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function En3_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUiControlBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function En0_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);
Lanjutan lampiran 15

1. Dilangkah menghindari kecenderungan dan penambahan yang jelas untuk kenyataan tuntut. 
2. Penggunaan pada kecenderungan dan penambahan kenyataan tuntut. 

% --- Executes during object creation, after setting all properties.
function En0_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function Ep0_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function Ep0_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end
Lampiran 16. sintaks bahasa pemrograman interface defek geometris asimetrik

function varargout = defectgeometrisas(varargin)
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ... 'gui_Singleton',  gui_Singleton, ... 'gui_OpeningFcn', ... @defectgeometrisas_OpeningFcn, ... 'gui_OutputFcn',  @defectgeometrisas_OutputFcn, ... 'gui_LayoutFcn',  [], ..., 'gui_Callback',  []);
if nargin && ischar(varargin{1})
gui_State.gui_Callback = str2func(varargin{1});
end
if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end % End initialization code - DO NOT EDIT

% --- Executes just before defectgeometrisas is made visible.
function defectgeometrisas_OpeningFcn(hObject, eventdata, handles, varargin)
% This function has no output args, see OutputFcn.
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% varargin   command line arguments to defectgeometrisas (see VARARGIN)

% Choose default command line output for defectgeometrisas
handles.output = hObject;

% Update handles structure
guidata(hObject, handles);

% UIWAIT makes defectgeometrisas wait for user response (see UIRESUME)
% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.
function varargout = defectgeometrisas_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT)
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure
varargout{1} = handles.output;
% --- Executes on button press in process_push.
function process_push_Callback(hObject, eventdata, handles)
% hObject    handle to process_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
% handles    structure with handles and user data (see GUIDATA)
% Get user input from GUI
n0=str2num(get(handles.En0,'String'));
n1=str2num(get(handles.En1,'String'));
n2=str2num(get(handles.En2,'String'));
quadrat=str2num(get(handles.Eq0,'String'))*10^(-6);
N=str2num(get(handles.EN,'String'));
S=str2num(get(handles.ES,'String'));
H=str2num(get(handles.EH,'String'));
B=str2num(get(handles.EB,'String'));

% Calculate Data
x=H:0.001:B;
c=3*10^8;
A0=4*n1*a;
w0=2*pi*c/A0;
w=x*w0;
h=1;
p0=q0*pi/180;
p1=asin((n0/n1)*sin(p0));
p2=asin((n1/n2)*sin(p1));
k0=cos(p0)*(w*n0)/c;
k1=cos(p1)*(w*n1)/c;
k2=cos(p2)*(w*n2)/c;
b=a*n1/n2;
d=2*h*(A0/4);
set(handles.Ed2,'String',num2str(b));
set(handles.Ed3,'String',num2str(d));
m=length(x);
for j=1:1:m
    D0=[1 1; k0(j) -k0(j)];
    D1=[1 1; k1(j) -k1(j)];
    D2=[1 1; k2(j) -k2(j)];
    P1=[exp(i*k1(j)*a) 0; 0 exp(-i*k1(j)*a)];
    P2=[exp(i*k2(j)*b) 0; 0 exp(-i*k2(j)*b)];
    P3=[exp(i*k1(j)*d) 0; 0 exp(-i*k1(j)*d)];
    MB=D1*P1*inv(D1)*D2*P2*inv(D2);
    MD=D1*P1*inv(D1)*D2*P2*inv(D2)*D1*P3*inv(D1)*D2*P2*inv(D2);
    Y=(MB*S)*MD)^N;
    Z=inv(D0)*Y*inv(MB*S)*D0;
    Q=Z(1,1);
    V=1/Q;
    G=conj(V)*V;
    T(j)=abs(G);
End
Lanjutan lampiran 16

```matlab
% Create Transmittance plot
axes(handles.axes1)
plot(x,T)
xlabel('
')
ylabel('
')
title('
')
set(handles.axes1)
grid on
hold on
guidata(hObject,handles)

% --- Executes on button press in reset_push.
function reset_push_Callback(hObject, eventdata, handles)
% hObject    handle to reset_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
%MATLAB
% handles    structure with handles and user data (see GUIDATA)
cla(handles.axes1,'reset')
guidata(hObject,handles);

% --- Executes on button press in out_push.
function out_push_Callback(hObject, eventdata, handles)
% hObject    handle to out_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
%MATLAB
% handles    structure with handles and user data (see GUIDATA)
close;

function EH_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function EH_CreateFcn(hObject, eventdata, handles)
% hObject    handle to EH (see GCBO)
% eventdata  reserved - to be defined in a future version of
%MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc & isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end```
Lanjutan lampiran 16

function EB_Callback(hObject, eventdata, handles)
    hObject    handle to EB (see GCBO)
    eventdata  reserved - to be defined in a future version of
MATLAB
    handles    structure with handles and user data (see GUIDATA)

    % Hints: get(hObject,'String') returns contents of EB as text
    %        str2double(get(hObject,'String')) returns contents of EB
    %        as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
properties.
function EB_CreateFcn(hObject, eventdata, handles)
    hObject    handle to EB (see GCBO)
    eventdata  reserved - to be defined in a future version of
MATLAB
    handles    empty - handles not created until after all
CreateFcns called

    % Hint: edit controls usually have a white background on Windows.
    %      See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
                 get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function Ed1_Callback(hObject, eventdata, handles)
    hObject    handle to Ed1 (see GCBO)
    eventdata  reserved - to be defined in a future version of
MATLAB
    handles    structure with handles and user data (see GUIDATA)

    % Hints: get(hObject,'String') returns contents of Ed1 as text
    %        str2double(get(hObject,'String')) returns contents of Ed1
    %        as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all
properties.
function Ed1_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
                   get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end
Lanjutan lampiran 16

function Ed2_Callback(hObject, eventdata, handles)
    hObject    handle to Ed2 (see GCBO)
    eventdata  reserved - to be defined in a future version of MATLAB
    handles    structure with handles and user data (see GUIDATA)

    % Hints: get(hObject,'String') returns contents of Ed2 as text
    %        str2double(get(hObject,'String')) returns contents of Ed2
    % as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

    % --- Executes during object creation, after setting all properties.
    function Ed2_CreateFcn(hObject, eventdata, handles)
    hObject    handle to Ed2 (see GCBO)
    eventdata  reserved - to be defined in a future version of MATLAB
    handles    empty - handles not created until after all CreateFcns called

    % Hint: edit controls usually have a white background on Windows.
        See ISPC and COMPUTER.
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end

function EN_Callback(hObject, eventdata, handles)
    hObject    handle to EN (see GCBO)
    eventdata  reserved - to be defined in a future version of MATLAB
    handles    structure with handles and user data (see GUIDATA)

    % Hints: get(hObject,'String') returns contents of EN as text
    %        str2double(get(hObject,'String')) returns contents of EN
    % as a double
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

    % --- Executes during object creation, after setting all properties.
    function EN_CreateFcn(hObject, eventdata, handles)
    if ispc && isequal(get(hObject,'BackgroundColor'),
        get(0,'defaultUicontrolBackgroundColor'))
        set(hObject,'BackgroundColor','white');
    end
function ES_Callback(hObject, eventdata, handles)
% hObject    handle to ES (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
%
% Hints: get(hObject,'String') returns contents of ES as text
%        str2double(get(hObject,'String')) returns contents of ES
%       as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function ES_CreateFcn(hObject, eventdata, handles)
% hObject    handle to ES (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    empty - handles not created until after all
% CreateFcns called
%
% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ed3_Callback(hObject, eventdata, handles)
% hObject    handle to Ed3 (see GCBO)
% eventdata  reserved - to be defined in a future version of
% MATLAB
% handles    structure with handles and user data (see GUIDATA)
%
% Hints: get(hObject,'String') returns contents of Ed3 as text
%        str2double(get(hObject,'String')) returns contents of Ed3
%       as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function Ed3_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function En1_Callback(hObject, eventdata, handles)
% hObject    handle to En1 (see GCBO)
% eventdata  reserved - to be defined in a future version of
% handles    structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of En1 as text
%        str2double(get(hObject,'String')) returns contents of En1
%        as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

function En2_Callback(hObject, eventdata, handles)
% hObject    handle to En2 (see GCBO)
% eventdata  reserved - to be defined in a future version of
% handles    structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of En2 as text
%        str2double(get(hObject,'String')) returns contents of En2
%        as a double
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

function En1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to En1 (see GCBO)
% eventdata  reserved - to be defined in a future version of
% handles    empty - handles not created until after all
CreateFcns called

% Hint: edit controls usually have a white background on Windows.
% See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function En2_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
function En0_Callback(hObject, eventdata, handles)
  hObject    handle to En0 (see GCBO)
  eventdata   reserved - to be defined in a future version of MATLAB
  handles     structure with handles and user data (see GUIDATA)

  % Hints: get(hObject,'String') returns contents of En0 as text
  %       str2double(get(hObject,'String')) returns contents of En0
  %       as a double
  input=str2num(get(hObject,'String'));
  if (isempty(input))
    set(hObject,'String','0')
  end
  guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function En0_CreateFcn(hObject, eventdata, handles)
 (hObject)    handle to En0 (see GCBO)
  eventdata    reserved - to be defined in a future version of MATLAB
  handles      empty - handles not created until after all
                CreateFcns called

  % Hint: edit controls usually have a white background on Windows.
  %       See ISPC and COMPUTER.
  if ispc && isequal(get(hObject,'BackgroundColor'),
                    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
  end

function Ep0_Callback(hObject, eventdata, handles)
  hObject    handle to Ep0 (see GCBO)
  eventdata   reserved - to be defined in a future version of MATLAB
  handles     structure with handles and user data (see GUIDATA)

  % Hints: get(hObject,'String') returns contents of Ep0 as text
  %       str2double(get(hObject,'String')) returns contents of Ep0
  %       as a double
  input=str2num(get(hObject,'String'));
  if (isempty(input))
    set(hObject,'String','0')
  end
  guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function Ep0_CreateFcn(hObject, eventdata, handles)
  if ispc && isequal(get(hObject,'BackgroundColor'),
                    get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
  end
function varargout = defectindexrefractionas(varargin)
gui_Singleton = 1;
gui_State = struct('gui_Name', mfilename, ...
    'gui_Singleton', gui_Singleton, ...
    'gui_OpeningFcn', ...
    @defectindexrefractionas_OpeningFcn, ...
    'gui_OutputFcn', ...
    @defectindexrefractionas_OutputFcn, ...
    'gui_Callback', []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end
if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end

% --- Executes just before defectindexrefraction is made visible.
function defectindexrefractionas_OpeningFcn(hObject, eventdata, handles, varargin)
% Choose default command line output for defectindexrefraction
handles.output = hObject;
% Update handles structure
guidata(hObject, handles);
% --- Outputs from this function are returned to the command line.
function varargout = defectindexrefractionas_OutputFcn(hObject, eventdata, handles)
varargout{1} = handles.output;

% --- Executes on button press in process_push.
function process_push_Callback(hObject, eventdata, handles)

% hObject    handle to process_push (see GCBO)
% eventdata  reserved - to be defined in a future version of
%              MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Get user input from GUI
n0=str2num(get(handles.En0,'String'));
n1=str2num(get(handles.En1,'String'));
n2=str2num(get(handles.En2,'String'));
n3=str2num(get(handles.En3,'String'));
g0=str2num(get(handles.Ed1,'String'))*10^(-6);
N=str2num(get(handles.EN,'String'));
S=str2num(get(handles.ES,'String'));
H=str2num(get(handles.EH,'String'));
B=str2num(get(handles.EB,'String'));

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% Calculate Data
x=H:0.001:B;
c=3*10^8;
A0=4*n1*a;
w0=2*pi*c/A0;
w=x*w0;
p0=q0*pi/180;
p1=asin((n0/n1)*sin(p0));
p2=asin((n1/n2)*sin(p1));
p3=asin((n2/n3)*sin(p2));
k0=cos(p0)*(w*n0)/c;
k1=cos(p1)*(w*n1)/c;
k2=cos(p2)*(w*n2)/c;
k3=cos(p3)*(w*n3)/c;
b=a*n1/n2;
set(handles.Ed2,'String',num2str(b));
m=length(x);
for j=1:m
    D0=[1 1;k0(j) -k0(j)];
    D1=[1 1;k1(j) -k1(j)];
    D2=[1 1;k2(j) -k2(j)];
    D3=[1 1;k3(j) -k3(j)];
    P1=[exp(i*k1(j)*a) 0;0 exp(-i*k1(j)*a)];
    P2=[exp(i*k2(j)*b) 0;0 exp(-i*k2(j)*b)];
    P3=[exp(i*k3(j)*a) 0;0 exp(-i*k3(j)*a)];
    MB=D1*P1*inv(D1)*D2*P2*inv(D2);
    MD=D1*P1*inv(D1)*D2*P2*inv(D2)*D3*P3*inv(D3)*D2*P2*inv(D2);
    Y=((MB^S)*MD)^N;
    Z=inv(D0)*Y*(MB^S);%
    Q=Z(1,1);
    V=1/Q;
    G=conj(V)*V;
    T(j)=abs(G);
end

% Create Transmittance plot
axes(handles.axes1)
plot(x,T)
xlabel('')
ylabel('')
title('')
set(handles.axes1)
grid on
hold on
guidata(hObject,handles)

% --- Executes on button press in reset_push.
function reset_push_Callback(hObject, eventdata, handles)
% hObject    handle to reset_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
cla(handles.axes1,'reset')
guida(hObject,handles);
function out_push_Callback(hObject, eventdata, handles)
% hObject    handle to out_push (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
close;

function EH_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

function EB_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

function EB_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ed1_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);
% --- Executes during object creation, after setting all
% properties.
function Ed1_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ed2_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function Ed2_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function EN_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function EN_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function ES_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set(hObject,'String','0')
end
guidata(hObject,handles);

% --- Executes during object creation, after setting all
% properties.
function ES_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
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function En1_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);

function En2_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);

function En3_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);

function En0_Callback(hObject, eventdata, handles)
input=str2num(get(hObject,'String'));
if (isempty(input))
    set (hObject,'String','0')
end
guidata(hObject,handles);
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% --- Executes during object creation, after setting all properties.
function En0_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end

function Ep0_Callback(hObject, eventdata, handles)
    input=str2num(get(hObject,'String'));
    if (isempty(input))
        set(hObject,'String','0')
    end
    guidata(hObject,handles);

% --- Executes during object creation, after setting all properties.
function Ep0_CreateFcn(hObject, eventdata, handles)
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end
1. Dilihat menunjukkan daun manggis yang berkembang di lingkungan karakteristik daun manggis yang biasa ditemukan.
2. Dilihat menunjukkan daun manggis yang berkembang di lingkungan karakteristik daun manggis yang biasa ditemukan.

LAMPIRAN
Tampilan Interface Kristal Fotonik
Lampiran 18. Tampilan interface kristal fotonik

Tampilan Interface Menu utama
Kristal Fotonik

Tampilan Interface Kristal Fotonik Satu Layer Periodik
Tanpa Defek
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Tampilan Interface Kristal Fotonik Dua Layer Periodik
Tanpa Defek

Tampilan Interface Kristal Fotonik Tiga Layer Periodik
Tanpa Defek
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Tampilan Interface Kristal Fotonik Empat Layer Periodik Tanpa Defek

![Diagram Empat Layer Periodik](image)

Tampilan Interface Kristal Fotonik Lima Layer Periodik Tanpa Defek

![Diagram Lima Layer Periodik](image)
Lanjutan lampiran 18

Tampilan Interface Kristal Fotonik
Defek Geometris Simetrik/Asimetrik

Tampilan Interface Kristal Fotonik
Defek Indeks Bias Simetrik/Asimetrik