

# Magnetizacni charakteristiky

## Purpose

Magnetizacni charakteristiky ruznych mterial .

## System

## Sites of Interaction

## System Parameters

## System excitation

## Task

## Assumptions

## Model

## Data

```
*: Magnetizacni charakteristiky  
*SYSTEM;
```

```
: Magnetizacni charakteristiky železa (komer ní stupe nístoty)  
MagCharZelezo /TAB/
```

H [A/m]	B [T]
0,	0,
40,	0.1,
42,	0.2,
45,	0.3,
48,	0.4,
50,	0.5,
52,	0.6,
59,	0.7,
62,	0.8,
78,	0.9,
100,	1.0,
140,	1.1,
180,	1.2,
300,	1.3,
480,	1.4,
600,	1.45;

```
: Transformátorový plech 4% Si  
MagCharSiPlech /TAB/
```

: H [A/m]	B [T]
0,	0,
20,	0.1,
50,	0.2,
65,	0.3,
82,	0.4,
110,	0.5,
140,	0.6,
175,	0.7,
210,	0.8,
262,	0.9,
337,	1.0,
410,	1.1,
519,	1.2,
660,	1.3,
800,	1.35,
1000,	1.4;

: Ocel E11

MagCharOcelE11 /TAB/

: H [A/m]	B [T]
0,	0,
40,	0.1,
60,	0.2,
70,	0.3,
80,	0.4,
98,	0.5,
117,	0.6,
140,	0.7,
167,	0.8,
200,	0.9,
240,	1,
300,	1.1,
400,	1.2,
550,	1.3,
700,	1.35,
900,	1.4;

: Transformátorový plech Tlouš ky 0,35 E13

MagCharPlechE13 /TAB/

: H [A/m]	B [T]
0.0,	0.0,
12.0,	0.2,
15.5,	0.3,
18.5,	0.4,
20.1,	0.5,
22.2,	0.6,
24.1,	0.7,
26.0,	0.8,
31.0,	1.0,
34.0,	1.1,
40.0,	1.2,
50.0,	1.3,
64.0,	1.4,
90.0,	1.5,
180.0,	1.6,

```

1100,      1.8,
10000,     2.0;

```

```
H=TIME;
```

```

: B = mi*H
Bzelezo=MagCharZelezo(H);
Bplechy=MagCharSiPlechey(H);
BocelE11=MagCharOcelE11(H);
BplechE13=MagCharPlechE13(H);

```

```

: Rm = H / B
Rmzelezo=H/Bzelezo;
Rmplechy=H/Bplechy;
RmocelE11=H/BocelE11;
RplechE13=H/BplechE13;

```

```
*TR;
```

```
TR 0.001 1200;
```

```
PRINT(1001)
```

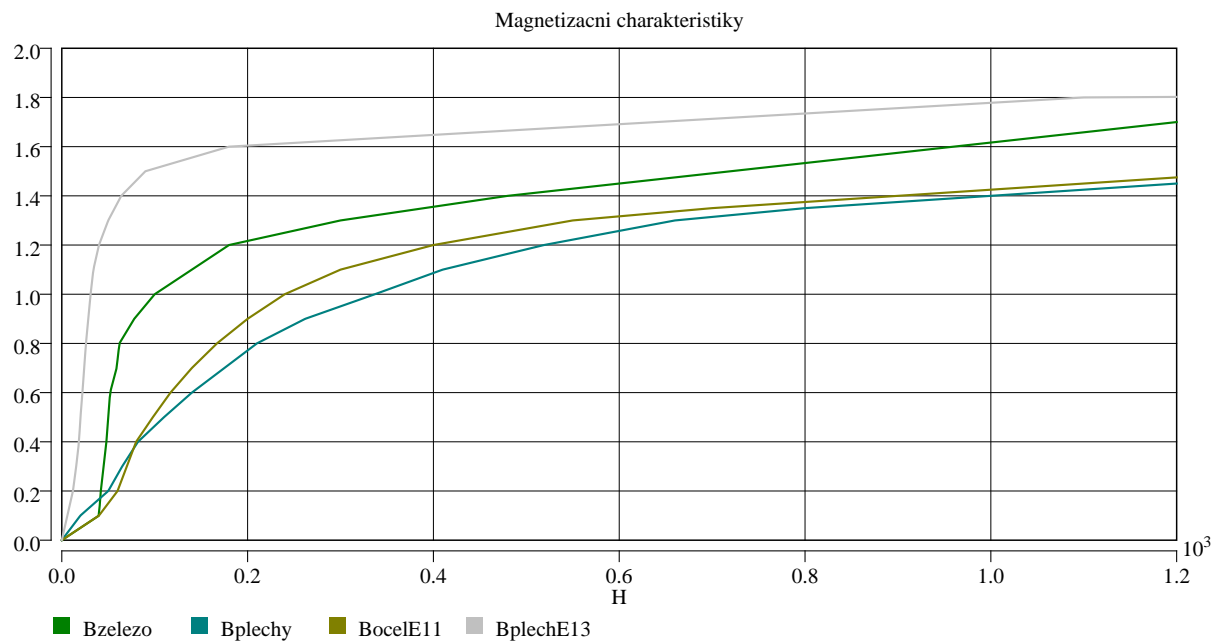
```

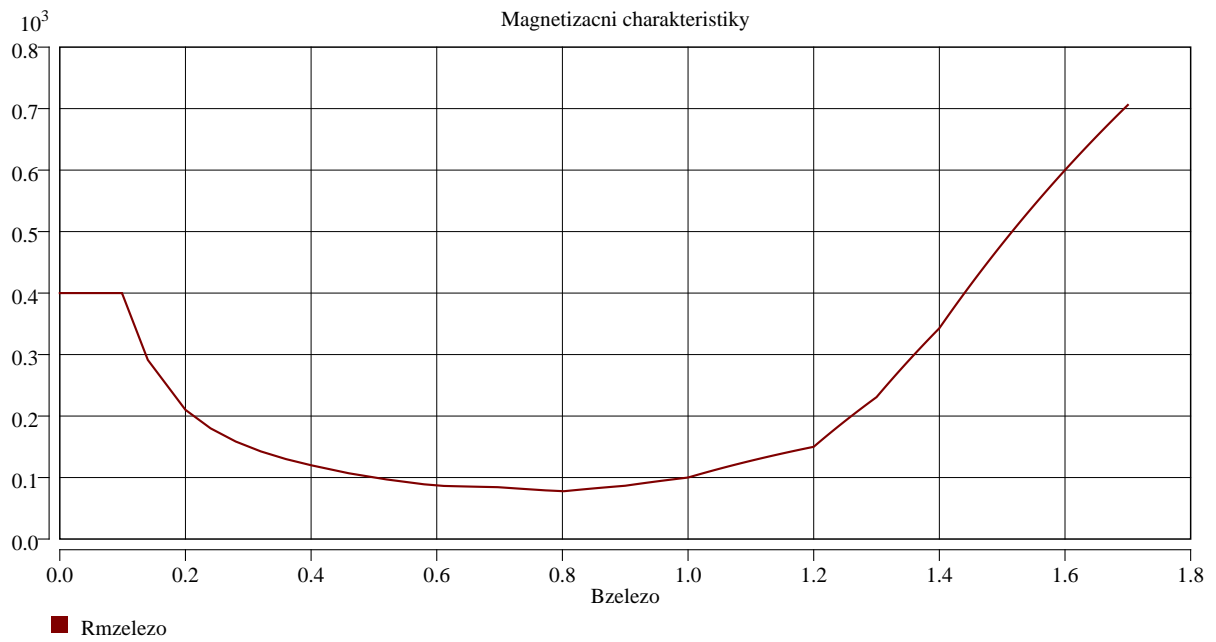
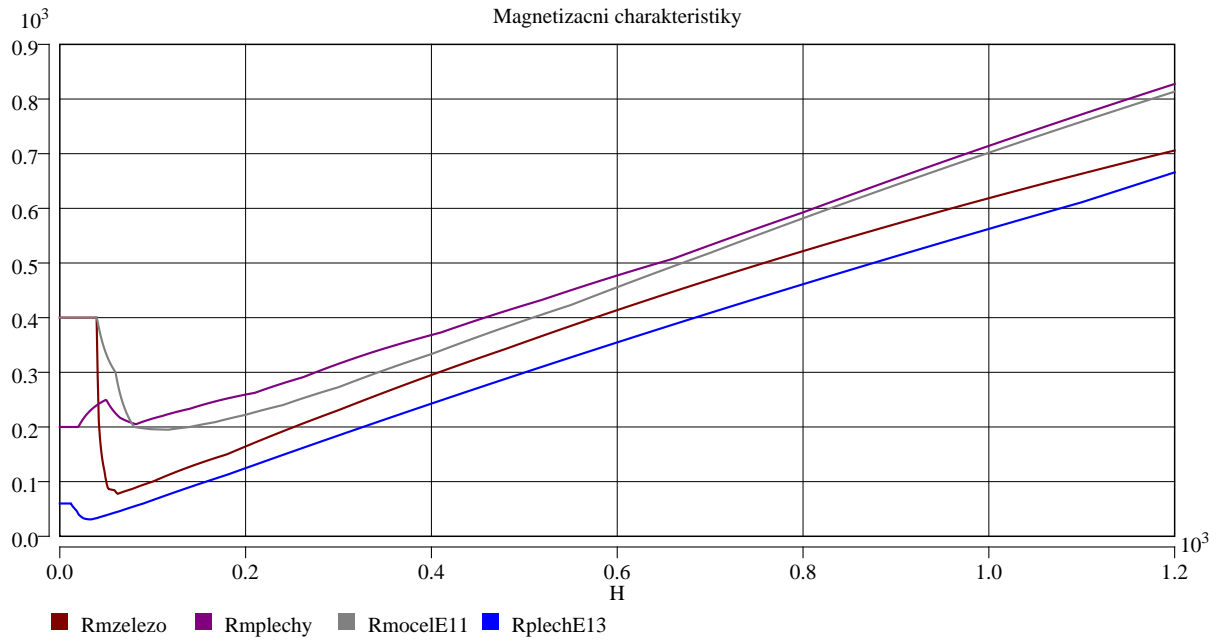
H,
Bzelezo, Rmzelezo,
Bplechy, Rmplechy,
BocelE11, RmocelE11,
BplechE13, RplechE13;

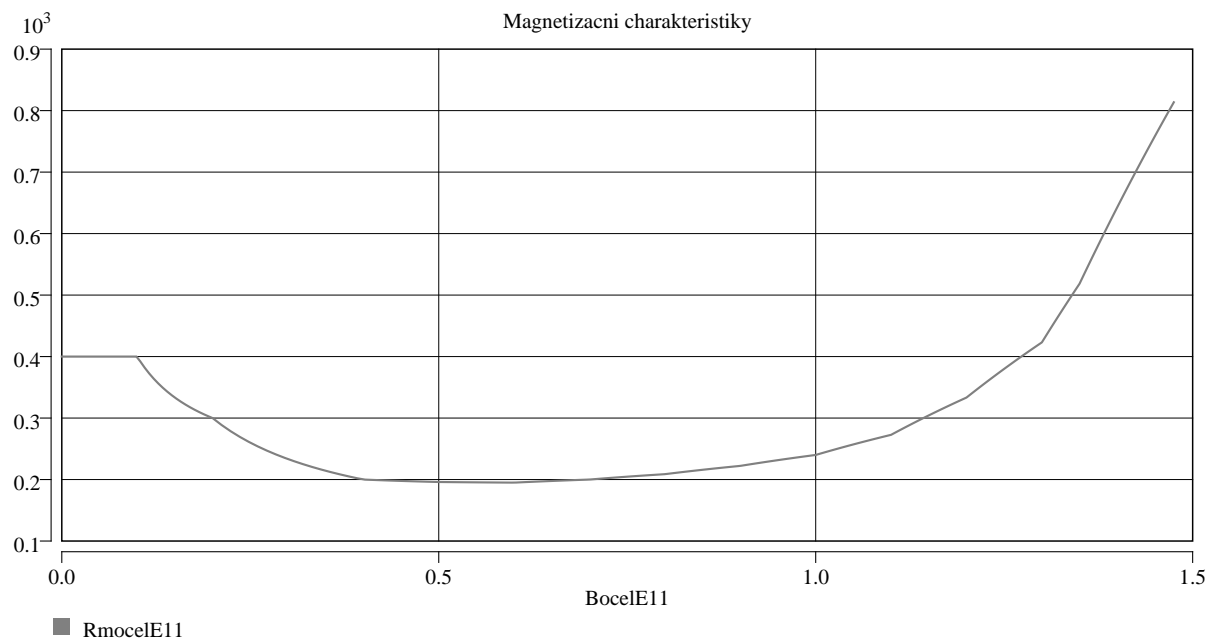
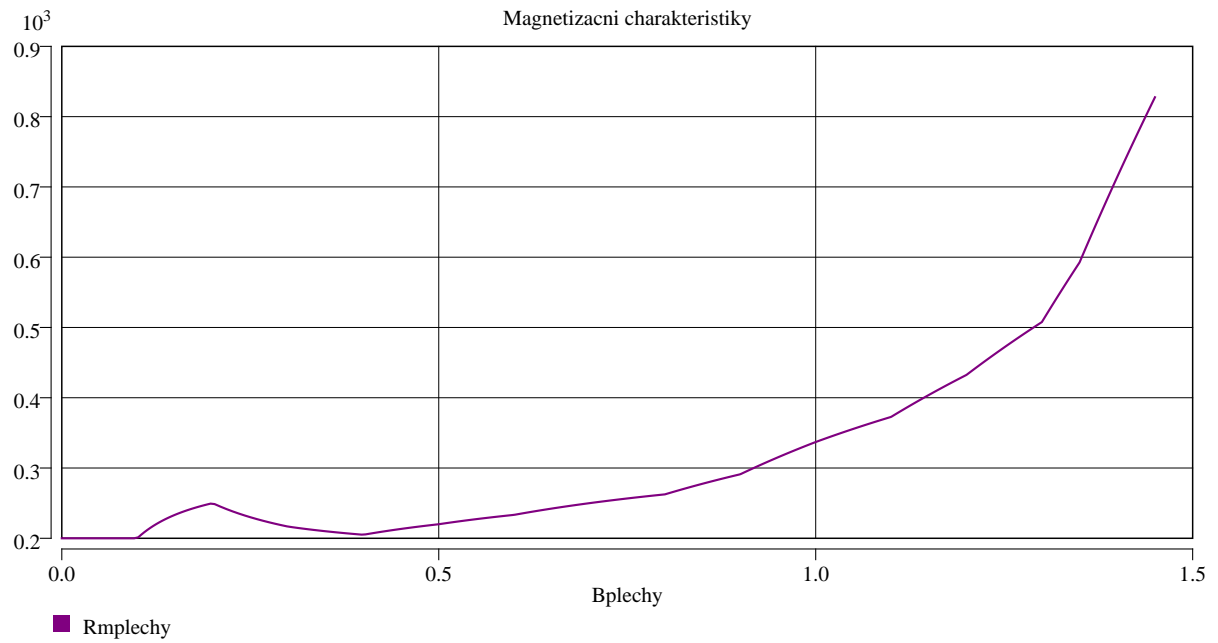
```

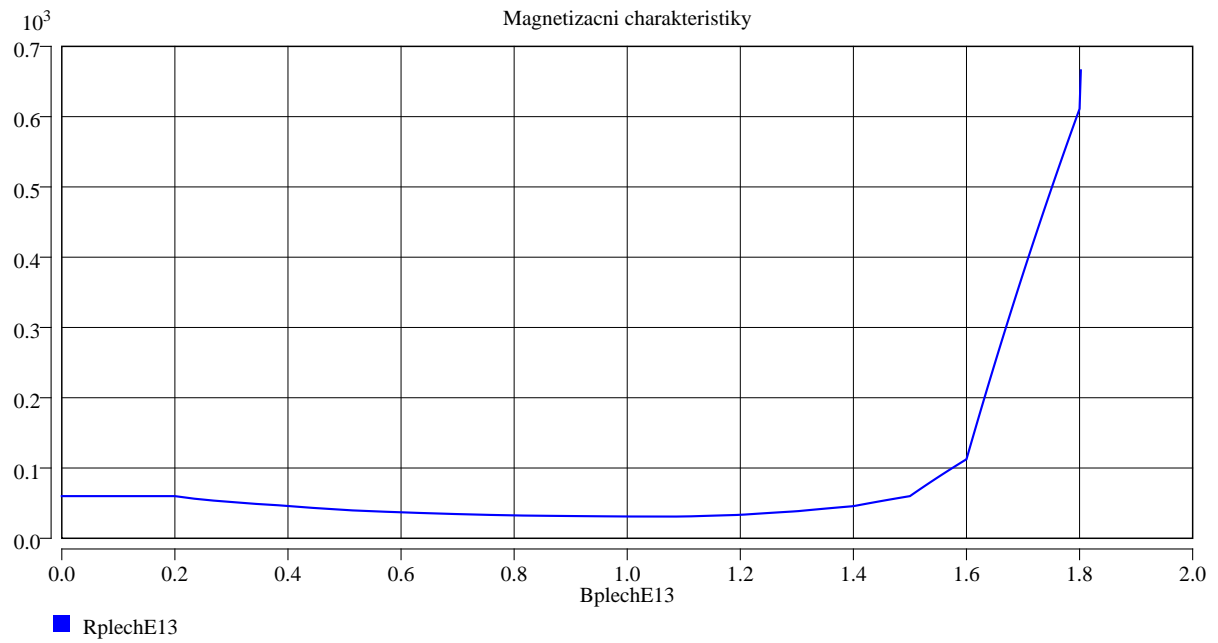
```
RUN;
```

```
*END;
```









## Origin

Karel Nohá , KEE, FEL, Z U v Plzni

## Last Update

November 8, 2016