

Fituici MNCPD

Aceasta **fituica** rezuma **Fituici MNCPD**.

In acest PDF poti vizualiza cuprinsul si bibliografia (daca sunt disponibile) si aproximativ doua pagini din documentul original.

Arhiva completa de pe site contine un fisier, intr-un numar total de **28 pagini**.

Fisierele documentului original au urmatoarele extensii: doc.

Extras

Implicatii in rez. sist. de ec. Liniare

Compatibil det (sist patrate): $Ax=b$, A R nesing.

```
isel_a.m
```

```
n=size(a);
```

```
a1=a;b1=b;
```

```
for k=1:n-1
```

```
sig=0;
```

```
for i=k:n
```

```
sig=sig+a(i,k)^2;
```

```
end;
```

```
sig=sign(a(k,k))*sqrt(sig);
```

```
for i=1:n
```

```
if i<=k-1 v(i)=0;
```

```
elseif i==k v(i)=sig+a(k,k);
```

```
else v(i)=a(i,k);
```

```
end;
```

```
end;
```

```
beta=sig*(sig+a(k,k));
```

```
q=eye(n)-(v'*v)/beta; a=q*a; b=q*b;
```

```
end;
```

```
b(n)=b(n)/a(n,n);
```

```
for i=n-1:-1:1
```

```
s=0;
```

```

for j=i+1:n
s=s+a(i,j)*b(j);
end;
b(i)=(b(i)-s)/a(i,i);
end;
Ax=b, A R ,m>n si rangA=n (A-monica)

```

isel_b.m

```

[m,n]=size(a);
a1=a;
b1=b;
for k=1:n
sig=0;
for i=k:m
sig=sig+a(i,k)^2;
end;
sig=sign(a(k,k))*sqrt(sig);
for i=1:n
if i<=k-1 v(i)=0;
elseif i==k v(i)=sig+a(k,k);
else v(i)=a(i,k);
end;
end;
beta=sig*(sig+a(k,k));
q=eye(m)-(v'*v)/beta;
a=q*a; b=q*b;
end;
b(n)=b(n)/a(n,n);
for i=n-1:-1:1
s=0;
for j=i+1:n

```

```

s=s+a(i,j)*b(j);

end;

b(i)=(b(i)-s)/a(i,i);

end;

Ax=b, A R , rangA=min(m,n)

isel_d.m

[m,n]=size(a);

a1=a;

b1=b;

p=eye(n);

ind=1; k=1;

for j=1:n

norm(j)=0;

for i=1:m

norm(j)=norm(j)+a(i,j)^2;

end;

end;

while ind==1 & k<=n

l=k;

for j=k+1:n

if norm(l)<norm(j) l=j;

end;

end;

if norm(l)==0

ind=0;

else

if k~=l p1=eye(n); p1(k,k)=0; p1(l,l)=0; p1(k,l)=1; p1(l,k)=1; a=a*p1; p=p*p1;

end;

sig=0;

for i=k:m sig=sig+a(i,k)^2;

```

```

end;
si=sign(a(k,k))+sqrt(sig);
for i=1:m if i<=k-1 v(i)=0;
elseif i==k v(i)=sig+a(k,k); else v(i)=a(i,k); end;
end;
beta=sig*(sig+a(k,k));
q=eye(m)-(v'*v)/beta;
a=q*a; b=q*b;
for j=k+1:n norm(j)=0; for i=k+1:m norm(j)=norm(j)+a(i,j)^2; end;
end;
k=k+1;
end;
end;
r=0;
while a(r+1,r+1)~0
r=r+1;
end;
b(r)=b(r)/a(r,r);
for i=r-1:-1:1
s=0;
for j=i+1:n
s=s+a(i,j)*b(j);
end;
b(i)=(b(i)-s)/a(i,i);
end;
for i=r+1:n
b(i)=0;
end;
b=p*b(1:n);

```

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