

1	000000I	SUBROUTINE LINERX(ISOL,IS,JS,KS,LT,MT,NT,F)	1520	
2	000004I	DIMENSION A(20),B(20),C(20),D(20),F(21,18,10),BB(21,18,10)	1521	
3	000004I	COMMON	1522	
4		1/COEF/ AP(21,18,10),SU(21,18,10),SP(21,18,10),SUK(21,18,10),	1523	
5		2 SPK(21,18,10),AE(21,18,10),AW(21,18,10),AN(21,18,10),	1524	
6		3 AS(21,18,10),AT(21,18,10),AB(21,18,10),APO(21,18,10)	1525	
7		C-----LINEAR EQUATIONS SOLVERS	1526	
8	000004I	GO TO (1,2),ISOL	1527	1
9		C-----LINE-RELAXATION USING TOMA	1528	
10	003C86I	1 CONTINUE	1529	2
11	003C86I	DO 10 I=IS,LT	1530	3
12	003C9EI	DO 10 J=JS,MT	1531	4
13	003C86I	DO 10 K=KS,NT	1532	5
14	003CCEI	BB(I,J,K)=AE(I,J,K)*F(I+1,J,K)+AN(I,J,K)*F(I,J+1,K)+	1533	6
15		1 SU(I,J,K)	1534	
16	003DC8I	10 CONTINUE	1535	7
17	003E10I	A(KS-1)=0.C	1536	8
18	003E24I	DO 100 I=IS,LT	1537	9
19	003E3CI	DO 100 J=JS,MT	1538	10
20	003E54I	C(KS-1)=F(I,J,KS-1)	1539	11
21	003E90I	DO 101 K=KS,NT	1540	12
22	003EA8I	A(K)=AT(I,J,K)	1541	13
23	003EDA I	B(K)=AB(I,J,K)	1542	14
24	003F0CI	C(K)=BB(I,J,K)+AW(I,J,K)*F(I-1,J,K)+	1543	15
25		1 AS(I,J,K)*E(I,J-1,K)	1544	
26	003FECI	D(K)=AP(I,J,K)	1545	16
27	00401EI	TERM1=C(K)-B(K)*A(K-1)+1.E-30	1546	17
28	004054I	TERM=1.C/TERM1	1547	18
29	004066I	A(K)=A(K)*TERM	1548	19
30	004088I	101 C(K)=(C(K)+B(K)*C(K-1))*TERM	1549	20
31	0040E0I	DO 102 KK=KS,NT	1550	21
32	0040F8I	K=KS+NT-KK	1551	22
33	004110I	102 F(I,J,K)=A(K)*F(I,J,K+1)+C(K)	1552	23
34	00419EI	100 CONTINUE	1553	24
35	0041CEI	RETURN	1554	25
36		C-----BLOCK CORRECTION FOR PRESSURE FIELD	1555	
37	004106I	2 CONTINUE	1556	26
38	004106I	DO 201 I=IS,LT	1557	27
39	0041EEI	A(I)=0.C	1558	28
40	004202I	B(I)=0.C	1559	29
41	004216I	C(I)=0.C	1560	30
42	00422AI	D(I)=0.0	1561	31
43	00423EI	DO 201 J=JS,MT	1562	32
44	004256I	DO 201 K=KS,NT	1563	33
45	00426EI	A(I)=A(I)-AE(I,J,K)	1564	34
46	004280I	B(I)=B(I)-AW(I,J,K)	1565	35
47	0042F2I	C(I)=C(I)+SU(I,J,K)	1566	36
48	004334I	201 CONTINUE	1567	37
49	00437CI	DO 202 I=IS,LT	1568	38
50	004394I	ANAB=-A(I)-B(I)	1569	39
51	00439CI	202 D(I)=ANAB*1.5	1570	40
52	0043EEI	DO 203 I=IS+1,LT	1571	41
53	00440AI	TERM=B(I)/D(I-1)	1572	42
54	00442EI	D(I)=D(I)-TERM*A(I-1)	1573	43
55	004462I	203 C(I)=C(I)-TERM*C(I-1)	1574	44
56	0044AEI	F(LT,JS,KS)=C(LT)/D(LT)	1575	45
57	0044F6I	DO 204 II=IS+1,LT	1576	46