

VALORI CALCOLATI DELLA TRASMISSIVITA:

.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
.0000000	.1000000+02	.1036716+01	.1056912+01	.1000000+02	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
.0000000	.8834059+01	.1969619+01	.5792098+01	.1000000+02	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
.9860988+01	.1625440+02	.1408980+02	.4014746+01	.1000000+02	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
.1362134+02	.1788902+02	.1752720+02	.7109737+01	.1000000+02	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
.7935836+01	.9528135+01	.9157973+01	.1587180+01	.1080260+01	.1000000+02	.0000000	.0000000	.0000000	.0000000	.0000000
.7881862+01	.3231034+01	.3112961+01	.1497501+01	.1218169+01	.1000000+02	.0000000	.0000000	.0000000	.0000000	.0000000
.0000000	.1000000+02	.1000000+02	.1000000+02	.1000000+02	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
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QUOTE PIEZOMETRICHE CALCOLATE

.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	10.831	10.810	10.789	10.768	.000	.000	.000	.000	.000	.000	.000
.000	10.728	10.710	10.693	10.732	.000	.000	.000	.000	.000	.000	.000
10.808	10.639	10.614	10.647	10.724	.000	.000	.000	.000	.000	.000	.000
10.769	10.576	10.559	10.608	10.697	.000	.000	.000	.000	.000	.000	.000
10.738	10.604	10.588	10.607	10.662	10.726	.000	.000	.000	.000	.000	.000
10.750	10.638	10.619	10.638	10.672	10.685	.000	.000	.000	.000	.000	.000
.000	10.697	10.685	10.676	10.700	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

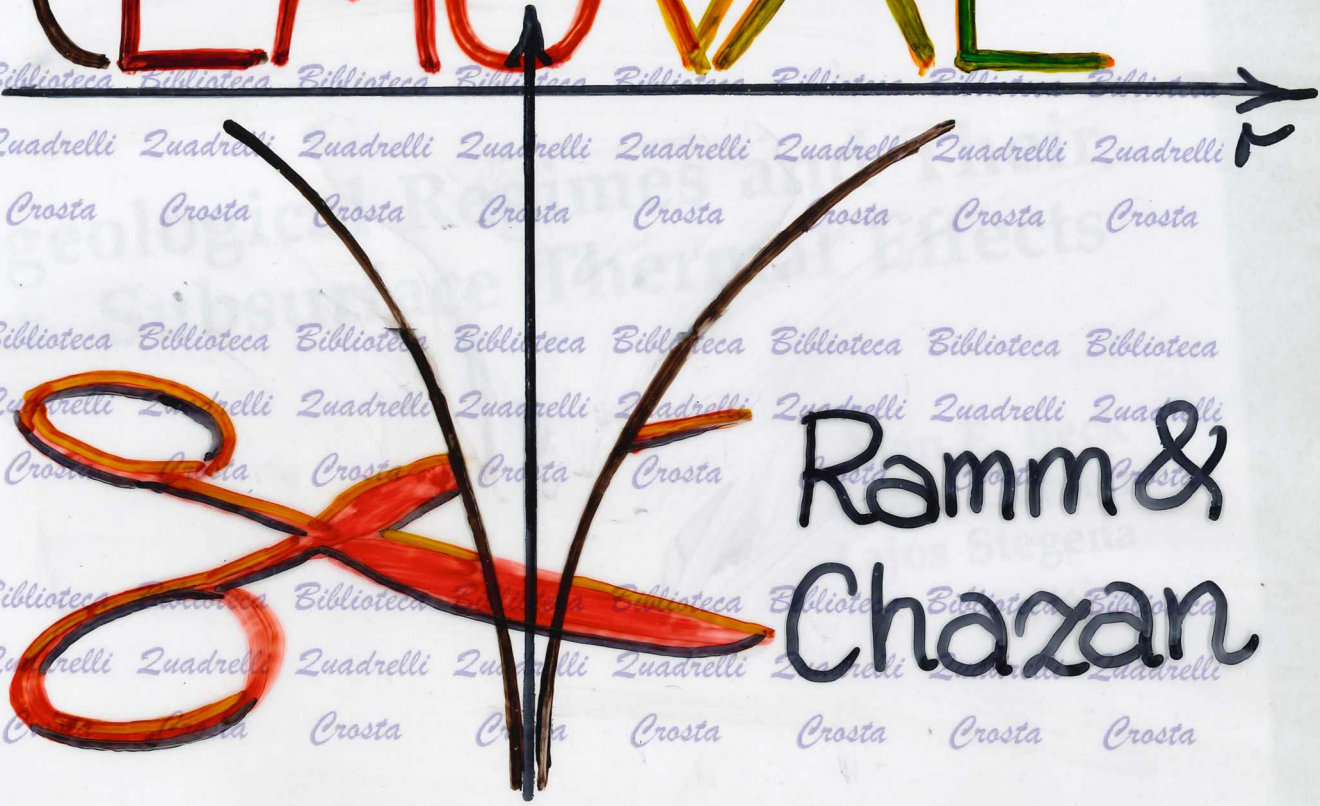
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.00000	.00000	.24296-02	.72136-02	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.00000	.97847-03	.92647-02	.11144-02	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.00000	-.22988-01	.32640-02	-.18064-01	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.00000	.70058-02	.18344-01	.13567-01	.61163-02	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.00000	.42963-03	-.69295-02	.37462-02	.13407-01	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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SINGULARITY

REMOVAL



Ramm &
Chazan

$$h(\cdot) = f(\cdot) + s(\cdot)$$

$$\begin{cases} \nabla \cdot (\mathbb{T} \nabla f) = g(\cdot) \\ g(\cdot) |_{\partial D} = v(\cdot) \end{cases}$$

$$P = \int_D |f - z_d|^2$$

$$\begin{cases} \nabla \cdot (\mathbb{T} \nabla s) = \delta(x - x_0) - g(\cdot) \\ s(\cdot) |_{\partial D} = 0 \end{cases}$$

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		22	20	17	12		
5	24	24	23	20	15	11	
5	20	20		16		11	
5	19		6	10	8	11	
5,5	17					10	13
5	10	5	5	5	5	6	
5	11	7	7				
	7		7				

$Q_{TOT} = 25.$

$r_0 = 3.$

$T_k^0 = 5.$

$T_{k \min} = 5.$

$P_k^0 = 2 \cdot 10^{-3}$

$Gr_k^0 = 7 \cdot 10^{-4}$

$P_k^{30} = 4 \cdot 10^{-5}$

$Gr_k^{30} = 10^{-5}$

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RELEVANT PARAMETERS. THRES= .0 IMAX= 30 KMAX= 30 GMIN= .10-07

MEASURED PRESSURE	2	3	HFHS	5	6	7	8	9	10	11
.000	10.843	10.840	10.837	10.833	10.831	10.827	10.820	.000	.000	.000
.000	10.825	10.823	10.821	10.819	10.817	10.813	10.806	.000	.000	.000
10.809	10.807	10.805	10.803	10.801	10.799	10.796	10.792	.000	.000	.000
10.799	10.798	10.796	10.794	10.792	10.790	10.787	10.783	.000	.000	.000
10.790	10.789	10.787	10.785	10.783	10.781	10.778	10.772	.000	.000	.000
10.781	10.779	10.778	10.776	10.773	10.770	10.767	10.761	10.751	.000	.000
10.771	10.770	10.767	10.765	10.762	10.760	10.756	10.751	10.739	.000	.000
10.764	10.759	10.757	10.754	10.751	10.749	10.745	10.739	10.726	.000	.000
.000	10.749	10.744	10.739	10.735	10.733	10.729	10.721	10.708	.000	.000
.000	10.735	10.730	10.726	10.719	10.714	10.708	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL WELL PUMPING RATE= .25000+02

SOURCE

.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.047	.415	.694	.202	.000	.000	.000	.000	.000	.000
.000	.415	1.809	2.869	1.002	.099	.000	.000	.000	.000	.000
.000	.694	2.360	4.521	1.610	.202	.000	.000	.000	.000	.000
.000	.415	1.809	2.869	1.002	.099	.000	.000	.000	.000	.000
.000	.047	.415	.694	.202	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

INITIAL ESTIMATE OF TRANSMISSIVITY

.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000	.000
.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000	.000
5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000	.000

5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000	.000
5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000	.000
5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000
5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000
5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000
.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000
.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

INITIAL + FINAL ABSCISSAS OF PROPER NODES

ITERATION NUMBER	2	RLIN COUNTS=	0	FUNCT.=	.19586-02	GRADIENT =	.54273-03
ITERATION NUMBER	3	RLIN COUNTS=	0	FUNCT.=	.15446-02	GRADIENT =	.39945-03
ITERATION NUMBER	4	RLIN COUNTS=	0	FUNCT.=	.12316-02	GRADIENT =	.30654-03
ITERATION NUMBER	5	RLIN COUNTS=	0	FUNCT.=	.99110-03	GRADIENT =	.24197-03
ITERATION NUMBER	6	RLIN COUNTS=	0	FUNCT.=	.80332-03	GRADIENT =	.19447-03
ITERATION NUMBER	7	RLIN COUNTS=	0	FUNCT.=	.65498-03	GRADIENT =	.15961-03
ITERATION NUMBER	8	RLIN COUNTS=	0	FUNCT.=	.53641-03	GRADIENT =	.13278-03
ITERATION NUMBER	9	RLIN COUNTS=	0	FUNCT.=	.44091-03	GRADIENT =	.11094-03
LAMBDA= .00000							
ITERATION NUMBER	10	RLIN COUNTS=	0	FUNCT.=	.36337-03	GRADIENT =	.93861-04
ITERATION NUMBER	11	RLIN COUNTS=	0	FUNCT.=	.30049-03	GRADIENT =	.78988-04
ITERATION NUMBER	12	RLIN COUNTS=	0	FUNCT.=	.24952-03	GRADIENT =	.67058-04
ITERATION NUMBER	13	RLIN COUNTS=	0	FUNCT.=	.20886-03	GRADIENT =	.56013-04
ITERATION NUMBER	14	RLIN COUNTS=	0	FUNCT.=	.17692-03	GRADIENT =	.47349-04
ITERATION NUMBER	15	RLIN COUNTS=	0	FUNCT.=	.15282-03	GRADIENT =	.39284-04
ITERATION NUMBER	16	RLIN COUNTS=	0	FUNCT.=	.13400-03	GRADIENT =	.33615-04
ITERATION NUMBER	17	RLIN COUNTS=	0	FUNCT.=	.11962-03	GRADIENT =	.28536-04
ITERATION NUMBER	18	RLIN COUNTS=	0	FUNCT.=	.10804-03	GRADIENT =	.25362-04
ITERATION NUMBER	19	RLIN COUNTS=	0	FUNCT.=	.98302-04	GRADIENT =	.22862-04
ITERATION NUMBER	20	RLIN COUNTS=	0	FUNCT.=	.90479-04	GRADIENT =	.20245-04
ITERATION NUMBER	21	RLIN COUNTS=	0	FUNCT.=	.83576-04	GRADIENT =	.18765-04
ITERATION NUMBER	22	RLIN COUNTS=	0	FUNCT.=	.77495-04	GRADIENT =	.17522-04
ITERATION NUMBER	23	RLIN COUNTS=	0	FUNCT.=	.72142-04	GRADIENT =	.16473-04
ITERATION NUMBER	24	RLIN COUNTS=	0	FUNCT.=	.67400-04	GRADIENT =	.15579-04
ITERATION NUMBER	25	RLIN COUNTS=	0	FUNCT.=	.63176-04	GRADIENT =	.14807-04
ITERATION NUMBER	26	RLIN COUNTS=	0	FUNCT.=	.59380-04	GRADIENT =	.13685-04
ITERATION NUMBER	27	RLIN COUNTS=	0	FUNCT.=	.55960-04	GRADIENT =	.13108-04
ITERATION NUMBER	28	RLIN COUNTS=	0	FUNCT.=	.52888-04	GRADIENT =	.12571-04
ITERATION NUMBER	29	RLIN COUNTS=	0	FUNCT.=	.50078-04	GRADIENT =	.13152-04
ITERATION NUMBER	30	RLIN COUNTS=	0	FUNCT.=	.47707-04	GRADIENT =	.12539-04

QUOTE PIEZOMETRICHE CALCOLATE

.000	10.843	10.840	10.837	10.833	10.831	10.827	10.820	.000	.000	.000
.000	10.825	10.821	10.818	10.816	10.815	10.813	10.806	.000	.000	.000
10.809	10.806	10.802	10.799	10.798	10.797	10.795	10.792	.000	.000	.000
10.799	10.797	10.792	10.788	10.788	10.789	10.786	10.783	.000	.000	.000
10.790	10.787	10.782	10.778	10.779	10.780	10.776	10.772	.000	.000	.000
10.781	10.779	10.773	10.768	10.770	10.771	10.766	10.747	10.751	.000	.000
10.771	10.773	10.768	10.762	10.760	10.760	10.758	10.744	10.739	.000	.000
10.764	10.762	10.759	10.755	10.751	10.749	10.747	10.735	10.726	.000	.000
.000	10.749	10.745	10.741	10.736	10.733	10.730	10.721	10.708	.000	.000
.000	10.735	10.730	10.726	10.719	10.714	10.708	.000	.000	.000	.000
.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

DIFF. TRA QUOTE CALCOLATE E MISURATE

.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.00000	.00000	-.23475-02	-.30750-02	-.26360-02	-.20798-02	-.51522-03	.00000	.00000	.00000	.00000
.00000	-.65947-03	-.31184-02	-.43757-02	-.29970-02	-.16390-02	-.94414-03	.00000	.00000	.00000	.00000
.00000	-.10936-02	-.41080-02	-.58511-02	-.33877-02	-.12448-02	-.10328-02	.00000	.00000	.00000	.00000
.00000	-.11649-02	-.48232-02	-.70521-02	-.34506-02	-.63252-03	-.15043-02	.00000	.00000	.00000	.00000
.00000	-.17285-04	-.42975-02	-.82247-02	-.28589-02	.16975-03	-.91982-03	-.14050-01	.00000	.00000	.00000
.00000	.32499-02	.86248-03	-.34604-02	-.18589-02	.13959-03	.21522-02	-.61804-02	.00000	.00000	.00000
.00000	.26989-02	.25194-02	.79358-03	.24915-04	.52023-03	.13987-02	-.40371-02	.00000	.00000	.00000
.00000	.00000	.14001-02	.11693-02	.99586-03	.83721-03	.46372-03	.00000	.00000	.00000	.00000
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000