

ANALIZA MODALA a ROCILOR SEDIMENTARE

Definitii - principii

- Prin analiza modala evaluam participarea cantitativa a componentilor in roca (pe care o exprimam in % pentru fiecare component in parte.
- In functie de scopul urmarit si de forma de reprezentare aleasa (histograma, diagrama binara, diagrama ternara, tetraedru..) se apeleaza la recalcularea componentilor alesi pentru a fi reprezentati, tot in % fata de 100%

Exemplu :

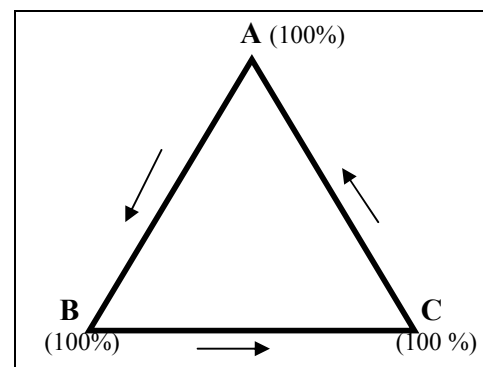
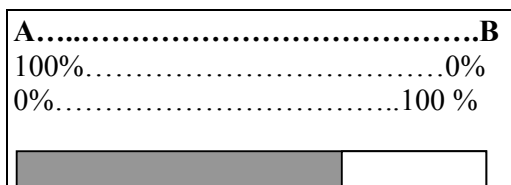
Particule = 70 %	Liant = 30 %
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Claste = 60% Alocheme = 30% Bioclaste = 10%	Cuart (Q) = 75 % Feldspati (F) = 10 % Litice (L) = 15%
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- Evaluarea procentelor de participare se face cu masa de integrare , la microscop , sau cu ajutorul comparatoarelor vizuale (vezi plansa) (depinde de scara la care se lucreaza si de informatiile care se cer.).

Rezultatele integrarii se proiecteaza, pentru fiecare situatie in parte, in diagrame binare sau diagrame ternare, de tipul:



Aplicatie

Examen microscopic

1. Integrati trei sectiuni efectuate in roci eterogene (1,2,3) ,formate din liant si particule si notati procentele de participare in tabel. Proiectati datele in diagrame binare sau ternare – dupa caz – si incercati sa dati un diagnostic. Consultati Modulul 16.

Relatia Particule : Liant	%			Criteriul genetic	%			Criteriul mineralogic	%		
	1	2	3		1	2	3		1	2	3
Particule				Tipuri de particule				Siliciclaste			
				Claste (grano+litocla ste)				Cuart – Q			
				Bioclaste				Feldspati – F			
				Alocheme				Fragmente litice - L			
				Total:	100 %			Total:	100%		
Liant				Matrice:							
				Ciment:							
Total :	100 %			Total:	100 %						

Table 3 - East Wildflysch Nappe

	Section/ Sample		Section/ Sample		Section/ Sample		Section/ Sample		Section/ Sample		Section/ Sample		Section/ Sample		Section/ Sample	
	N°grains	%	N°grains	%	N°grains	%	N°grains	%	N°grains	%	N°grains	%	N°grains	%	N°grains	%
	7/127		7/126		8/90		8/96		8/97		8/98		8/102b		8/104	
	Formation		Formation		Formation		Formation		Formation		Formation		Formation		Formation	
	Roaia Fm.		Roaia Fm.		Magura PP Sst.		Magura PP Sst.		Roaia Fm.		Roaia Fm.		Roaia Fm.		Roaia Fm.	
Qm	54	27.0	68	34.0	65	32.5	76	38.0	62	31.0	65	32.5	48	24.0	63	31.5
F	15	7.5	18	9.0	72	36.0	72	36.0	18	9.0	24	12.0	19	9.5	21	10.5
Lt	131	65.5	114	57.0	63	31.5	52	26.0	120	60.0	111	55.5	133	66.5	116	58.0
Tot	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0
Lm	169	84.5	176	88.0	117	58.5	154	77.0	146	73.0	142	71.0	139	69.5	145	72.5
Lv	18	9.0	15	7.5	38	19.0	9	4.5	13	6.5	15	7.5	20	10.0	11	5.5
Ls	13	6.5	9	4.5	45	22.5	37	18.5	41	20.5	43	21.5	41	20.5	44	22.0
Tot	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0	200	100.0

	Section/ Sample		Section/ Sample		Section/ Sample		Section/ Sample	
	N°grains	%	N°grains	%	N°grains	%	N°grains	%
	9/123		9/122		9/118a		9/116	
	Formation		Formation		Formation		Formation	
	Magura PP Sst.		Magura PP Sst.		Roaia Fm.		Roaia Fm.	
Qm	86	43.0	88	44.0	82	41.0	86	43.0
F	66	33.0	67	33.5	60	30.0	31	15.5
Lt	48	24.0	45	22.5	58	29.0	83	41.5
Tot	200	100.0	200	100.0	200	100.0	200	100.0
Lm	118	59.0	129	64.5	124	62.0	132	66.0
Lv	26	13.0	23	11.5	25	12.5	21	10.5
Ls	56	28.0	48	24.0	51	25.5	47	23.5
Tot	200	100.0	200	100.0	200	100.0	200	100.0