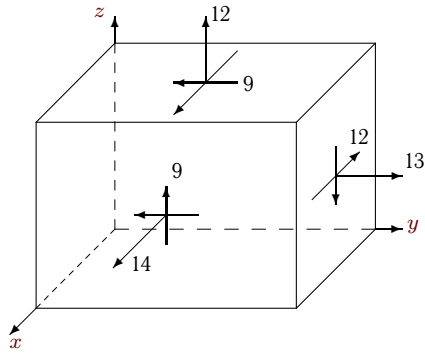


Трехмерное напряженное состояние

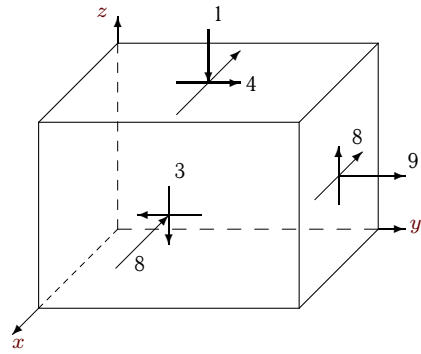
Найти главные нормальные и касательные напряжения. Вычислить октаэдрическое напряжение.

Задача 5.1



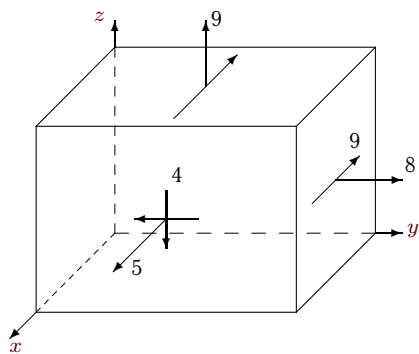
5.1

Задача 5.2



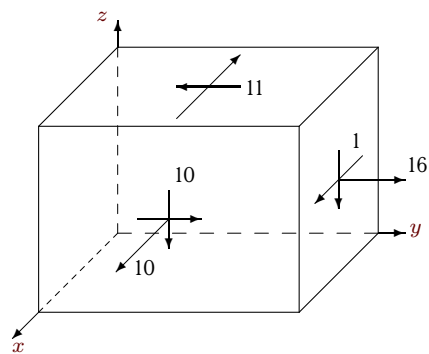
5.1

Задача 5.3



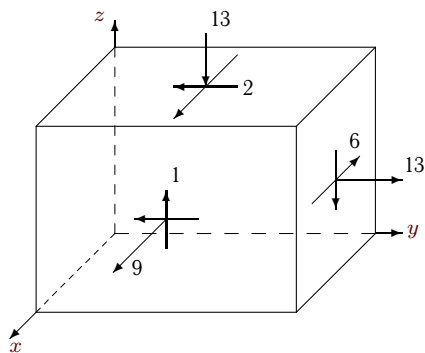
5.1

Задача 5.4



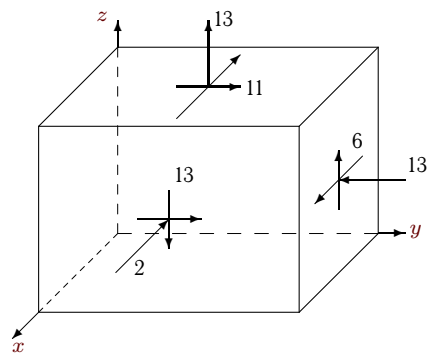
5.1

Задача 5.5



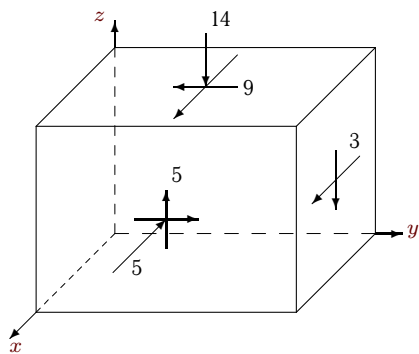
5.1

Задача 5.6



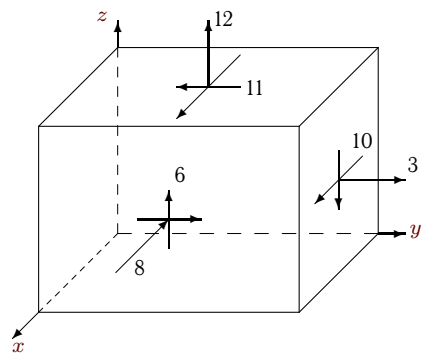
5.1

Задача 5.7



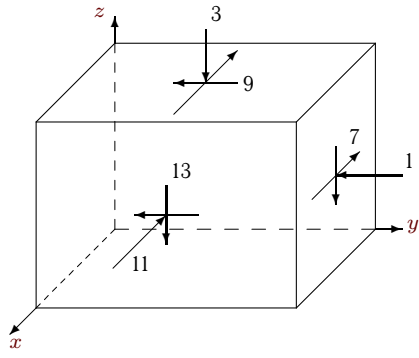
5.1

Задача 5.8



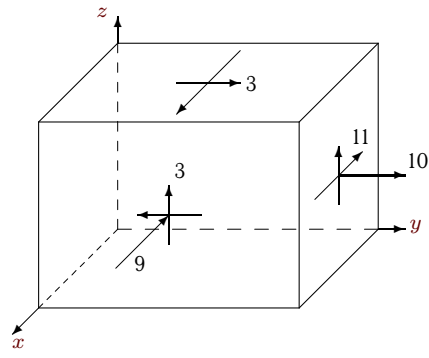
5.1

Задача 5.9



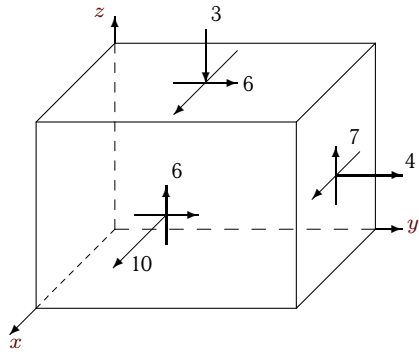
5.1

Задача 5.10



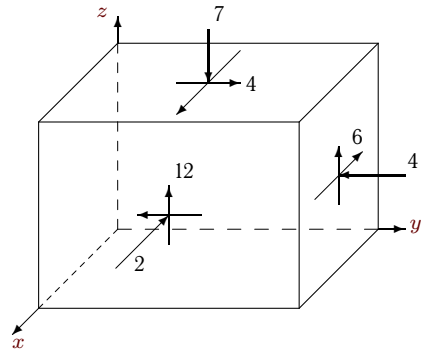
5.1

Задача 5.11



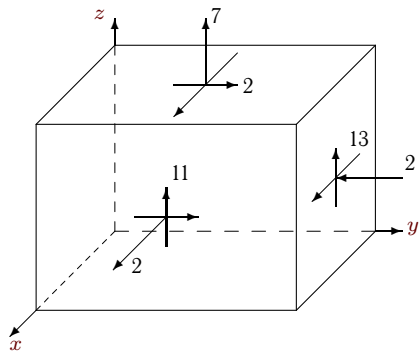
5.1

Задача 5.12



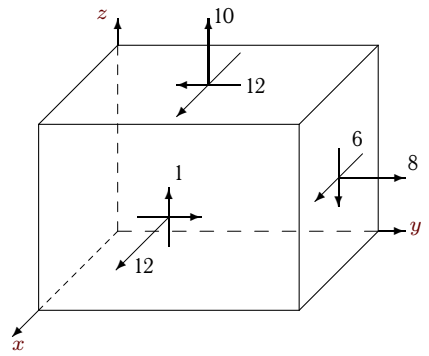
5.1

Задача 5.13



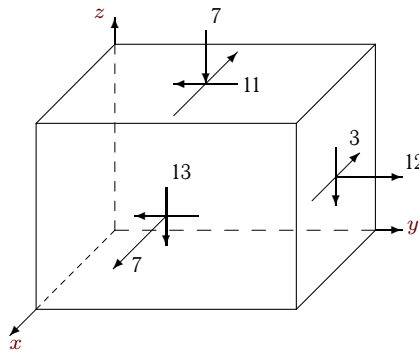
5.1

Задача 5.14



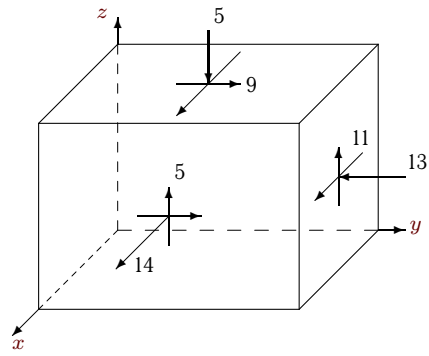
5.1

Задача 5.15



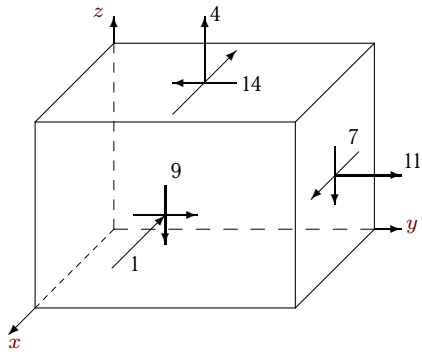
5.1

Задача 5.16



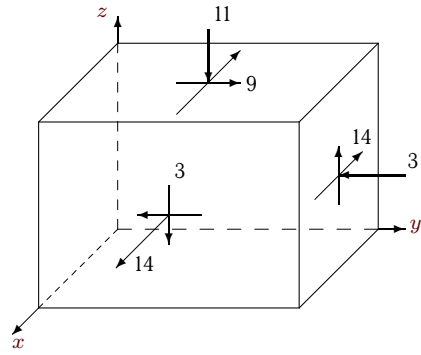
5.1

Задача 5.17



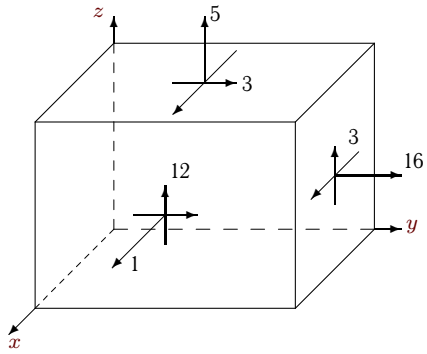
5.1

Задача 5.18



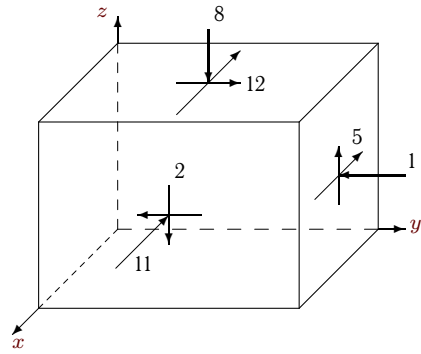
5.1

Задача 5.19



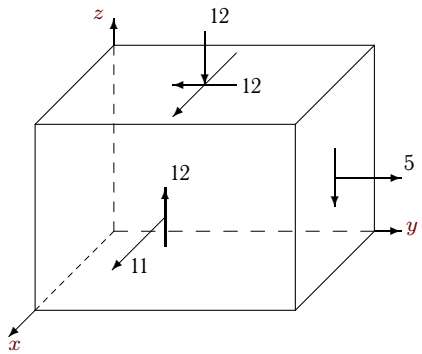
5.1

Задача 5.20



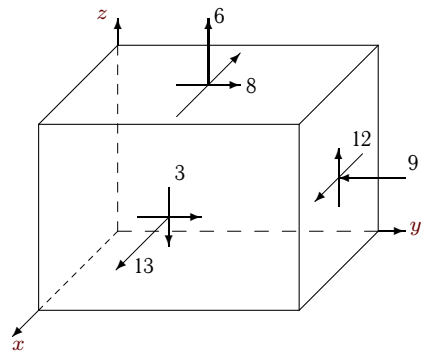
5.1

Задача 5.21



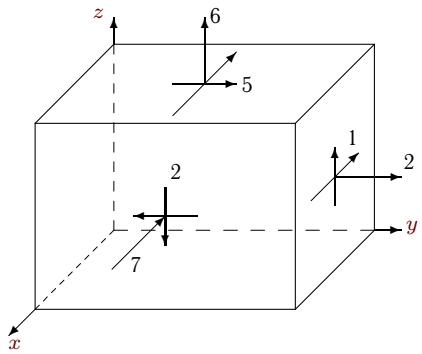
5.1

Задача 5.22



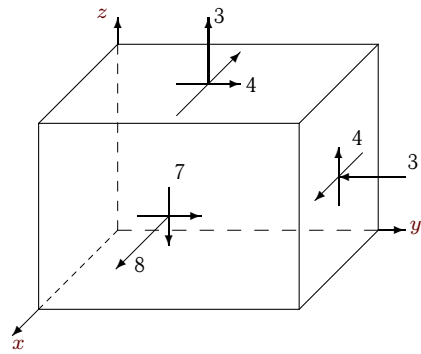
5.1

Задача 5.23



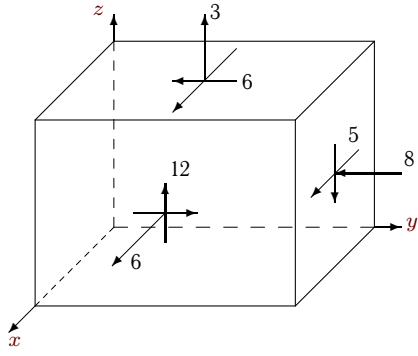
5.1

Задача 5.24



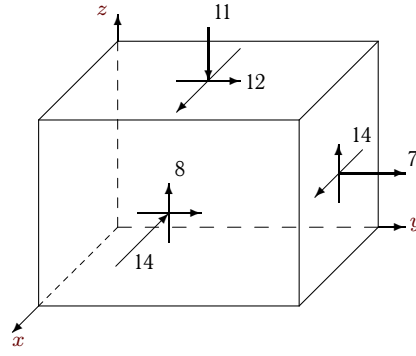
5.1

Задача 5.25



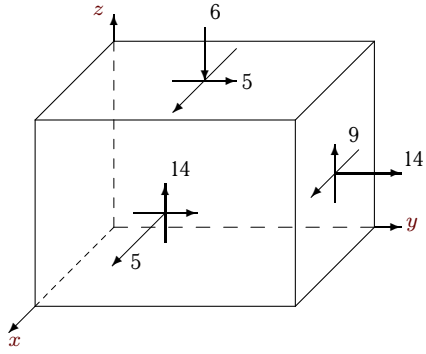
5.1

Задача 5.26



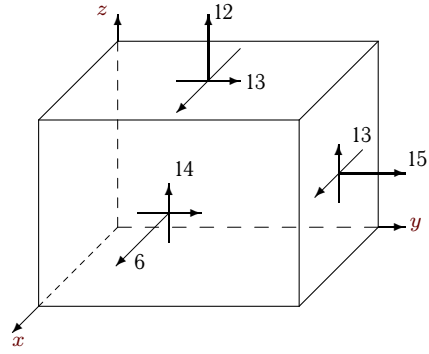
5.1

Задача 5.27



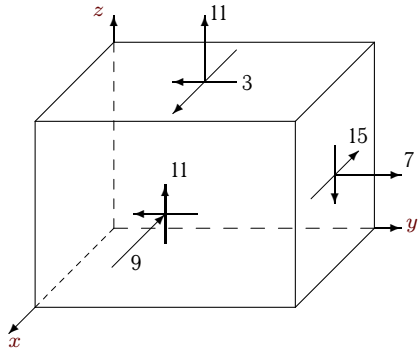
5.1

Задача 5.28



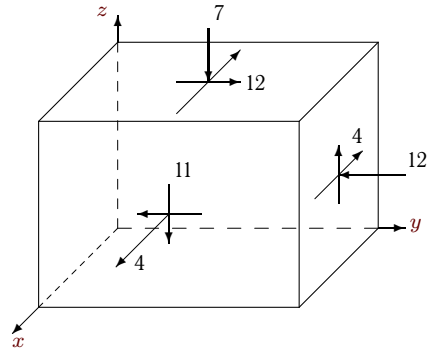
5.1

Задача 5.29



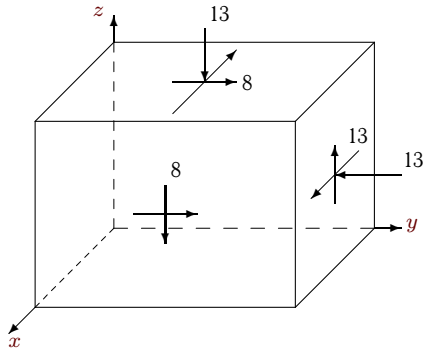
5.1

Задача 5.30



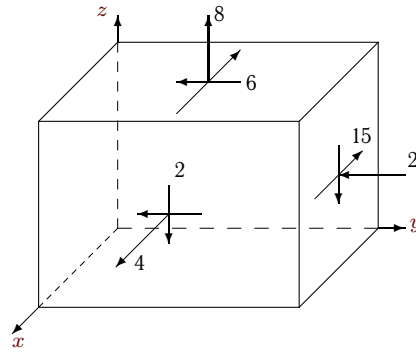
5.1

Задача 5.31



5.1

Задача 5.32



5.1

Трехмерное напряженное состояние

	J_1	J_2	J_3	σ_1	σ_2	σ_3	τ_1	τ_2	τ_3	$\tau_{окт}$
1	-39	200	-213	33.163	4.366	1.471	1.45	15.85	14.4	14.3062
2	0	-162	-375	13.757	-2.400	-11.357	4.48	12.56	8.08	10.3923
3	-22	60	497	16.568	8.829	-3.397	6.11	9.98	3.87	8.2192
4	-26	-62	2590	24.118	11.346	-9.465	10.4	16.8	6.39	13.8404
5	-9	-210	1078	17.484	4.683	-13.167	8.92	15.33	6.4	12.5698
6	2	-495	-593	21.872	-1.196	-22.676	10.74	22.27	11.53	18.1904
7	19	-45	-261	4.433	-2.862	-20.571	8.85	12.5	3.65	10.4987
8	-7	-341	1948	19.401	5.583	-17.984	11.78	18.7	6.9	15.4344
9	15	-252	464	8.408	2.159	-25.567	13.86	16.99	3.12	14.7648
10	-1	-229	207	15.184	0.904	-15.087	8	15.14	7.14	12.3648
11	-11	-123	-27	17.940	-0.224	-6.716	3.25	12.33	9.08	10.4350
12	13	-146	-228	8.199	-1.405	-19.794	9.2	14	4.8	11.6142
13	-7	-298	405	20.545	1.326	-14.871	8.1	17.7	9.61	14.4760
14	-30	115	1280	22.242	12.399	-4.641	8.52	13.44	4.92	11.1056
15	-12	-348	4258	18.303	12.423	-18.726	15.57	18.51	2.94	16.2481
16	4	-414	-1696	20.387	-4.101	-20.287	8.1	20.34	12.24	16.7199
17	-14	-297	-829	26.426	-3.524	-8.902	2.69	17.66	14.97	15.5421
18	0	-449	-2267	23.367	-5.400	-17.967	6.28	20.67	14.38	17.3013
19	-22	-61	2062	19.834	11.337	-9.171	10.25	14.5	4.25	12.1747
20	20	-66	-1940	9.335	-11.965	-17.370	2.7	13.35	10.65	11.5277
21	-4	-425	2964	18.356	7.416	-21.773	14.6	20.06	5.47	16.9378
22	-10	-310	2893	18.301	9.090	-17.391	13.24	17.85	4.6	15.1291
23	-1	-74	-97	9.680	-1.371	-7.309	2.97	8.5	5.53	7.0396
24	-8	-90	325	13.000	3.090	-8.090	5.59	10.55	4.95	8.6152
25	-1	-259	3	16.596	0.012	-15.607	7.81	16.1	8.3	13.1487
26	18	-425	-7490	20.515	-16.862	-21.652	2.4	21.08	18.69	18.8503
27	-13	-346	1543	24.538	4.037	-15.575	9.8	20.06	10.25	16.3775
28	-33	-192	170	37.942	0.783	-5.725	3.25	21.83	18.58	19.2354
29	-9	-440	2944	22.678	6.450	-20.128	13.29	21.4	8.11	17.6446
30	15	-273	-2380	14.670	-7.230	-22.439	7.6	18.55	10.95	15.2315
31	26	-128	-1365	8.425	-5.626	-28.799	11.59	18.61	7.03	15.3478
32	-10	-257	2360	16.948	8.827	-15.775	12.3	16.36	4.06	13.9124