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$$d = \frac{C \times (1 - g/C)^2}{2(1 - g/C X)} + \frac{X^2}{2V(1 - X)}$$

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(Km/h)		CH4	NOx	CO	SO2	PM10	NMVOG	THC
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:CH4
 :NOx
 :CO
 :SO2
 :PM10
 :NMVOG
 :THC

$CH4: \quad \times \ddot{y} \ddot{y} \quad \times \quad , \quad \times \quad \times \quad , \quad / \ddot{y} \ddot{y} = \quad gr$
 $CO: \quad \times \ddot{y} \ddot{y} \quad \times \quad , \quad \times \quad , \quad / \ddot{y} \ddot{y} \times \quad \ddot{y} = \quad \ddot{y} \quad gr$
 $SO2: \quad \times \ddot{y} \ddot{y} \quad \times \quad , \quad \times \quad , \quad / \ddot{y} \ddot{y} \times \quad = \quad gr$
 $PM10: \quad \times \ddot{y} \ddot{y} \quad \times \quad , \quad \times \quad , \quad / \ddot{y} \ddot{y} \times \quad \ddot{y} = \quad gr$
 $NMVOG: \quad \times \ddot{y} \ddot{y} \quad \times \quad , \quad \times \quad , \quad / \ddot{y} \ddot{y} \times \quad = \quad gr$

(gr/km) ×
 (km/s) ×

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THC (gr)	NMVOC (gr)	PM10 (gr)	SO2 (gr)	CO (gr)	Nox (gr)	CH4 (gr)		
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: CH4

: NOx

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<p>1. <i>Wishire R., R. Black, R. Grochoske, and J. Higinbotham, " Traffic Control System Handbook, Revised Edition" Washington DC: Federal Highway Administration. April 1985.</i></p>	<p>SCATS :</p>
<p>2. <i>" SCATS Area Traffic Control system", AWA Catalogue, 1999.</i></p>	
<p>3. <i>C. J. Khisty, B. K. Lall, "Transportation Engineering", 3th Edition, Prentice-Hall, Inc, 2003.</i></p>	<p>:</p>
<p>4. <i>Wilshire, R. "Traffic Engineering Handbook ", 4th Edition. Englewood Cliffs, NJ: Prentice-Hall, Inc., 1992</i></p>	<p>SCATS :</p>
<p>5. <i>Cooper, C.D. and F.C. Alley. "Air Pollution Control, A Design Approach", Secound Edition, Prospect Heights, IL: Waveland Press, 1994.</i></p>	<p>:</p>
<p>SCATS .í</p>	<p>:</p>

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سواری								
		CH4	NOx	CO	SO2	PM10	NMVO C	THC
ECE driving	Horizontal	358	1195	38078	11	250	3582	3939
	Up-hill	578	3246	106437	15	1247	5710	6285
	Down-hill	358	1166	34704	9	250	3562	3919
AV.40 Km/h	Horizontal	206	1625	23217	8	193	2032	2237
	Up-hill	279	4386	28747	12	963	2703	2980
	Down-hill	138	975	17017	7	193	1896	2051
AV.60 Km/h	Horizontal	147	2025	16447	7	177	1484	1632
	Up-hill	191	6372	22585	10	884	1893	2084
	Down-hill	64	1011	7196	5	177	1008	1084
AV.80 Km/h	Horizontal	121	2539	13889	7	168	1206	1328
	Up-hill	154	6233	14574	10	837	1531	1685
	Down-hill	72	1269	10463	5	168	863	940

سواری								
		CH4	NOx	CO	SO2	PM10	NMVO C	THC
ECE driving	Horizontal	631	2102	106546	15	461	6304	6934
	Up-hill	1015	5775	300329	21	2307	10088	11100
	Down-hill	630	2081	92136	13	461	6293	6922
AV.40 Km/h	Horizontal	362	1979	99126	12	357	3613	3975
	Up-hill	489	5341	122739	17	1786	4807	5294
	Down-hill	243	1187	72658	9	357	3372	3626
AV.60 Km/h	Horizontal	260	1776	49550	9	288	2604	2864
	Up-hill	337	5591	57384	13	1438	3323	3660
	Down-hill	113	887	22333	7	288	1770	1890
AV.80 Km/h	Horizontal	223	2259	44134	11	330	2231	2454
	Up-hill	283	5545	46341	15	1652	2831	3115
	Down-hill	133	1129	33102	7	330	1596	1731

سواری								
		CH4	NOx	CO	SO2	PM10	NMVO C	THC
ECE driving	Horizontal	260	64	25935	9	245	8295	8555
	Up-hill	987	244	98618	14	494	14318	15306
	Down-hill	166	44	16598	8	161	3512	3678
AV.40 Km/h	Horizontal	132	64	37770	7	181	4628	4761
	Up-hill	396	145	86562	9	354	13999	14395
	Down-hill	215	41	48703	7	163	10656	10872
AV.60 Km/h	Horizontal	133	75	23174	6	164	4067	4200
	Up-hill	533	325	47429	9	322	14880	15413
	Down-hill	85	48	8309	6	164	6617	6702
AV.80 Km/h	Horizontal	107	97	9254	7	168	3781	3888
	Up-hill	439	215	49370	10	329	9934	10373
	Down-hill	110	77	30732	7	225	10923	11033

		CH4	NOx	CO	SO2	PM10	NMVO C	THC
ECE driving	Horizontal	83	8344	6148	3989	2809	2753	2835
	Up-hill	138	17947	13540	6614	4470	4603	4741
	Down-hill	51	4949	4005	2231	1298	1708	1759
AV.40 Km/h	Horizontal	53	4421	3661	2062	1733	1758	1811
	Up-hill	89	9846	8107	3418	2711	2962	3051
	Down-hill	33	2625	2411	1153	811	1104	1137
AV.60 Km/h	Horizontal	31	3052	1873	2025	1977	1055	1086
	Up-hill	53	6132	4030	3252	2981	1752	1804
	Down-hill	21	1907	1284	1199	1007	693	713
AV.80 Km/h	Horizontal	28	2909	1277	4152	2850	937	965
	Up-hill	43	5274	2411	6228	4164	1421	1464
	Down-hill	19	1915	912	2620	1432	644	663

		CH4	NOx	CO	SO2	PM10	NMVO C	THC
ECE driving	horizontal	174	22508	12691	8942	3972	5785	5959
	up-hill	248	49691	29175	16770	6385	8264	8512
	down-hill	85	11143	6516	4357	1275	2832	2917
AV.40 Km/h	horizontal	174	9297	7909	4361	2280	5785	5959
	up-hill	248	20525	18182	8179	3619	8264	8512
	down-hill	85	4602	4061	2125	778	2832	2917
AV.60 Km/h	horizontal	104	9786	4047	3756	2189	3471	3575
	up-hill	144	19958	8555	6611	3326	4785	4929
	down-hill	54	5195	2221	1966	814	1825	1880
AV.80 Km/h	horizontal	87	10765	1656	3880	2249	2892	2979
	up-hill	149	21711	3160	7057	3889	3646	3796
	down-hill	49	6127	971	2182	925	1633	1682

		CH4	Nox	CO	SO2	PM10	NMVO C	THC
تاکسی گاز سوز								
ECE driving	Horizontal	194	2438	39678	6	25	1939	2133
	Up-hill	495	6761	60112	9	123	3109	3604
	Down-hill	194	2196	24759	7	25	1939	2133
AV.40 Km/h	Horizontal	140	1792	12499	5	9	1408	1548
	Up-hill	252	4835	15477	6	45	1872	2125
	Down-hill	88	1075	9162	4	9	1313	1402
AV.60 Km/h	Horizontal	101	1688	8989	3	9	1016	1117
	Up-hill	131	5314	8453	5	45	1295	1427
	Down-hill	44	844	4072	2	9	690	734
AV.80 Km/h	Horizontal	105	1751	9235	3	9	1043	1148
	Up-hill	132	4299	9035	5	43	1323	1455
	Down-hill	62	876	9994	2	9	746	808

اتوبوس شرکت واحد								
		CH4	NOx	CO	SO2	PM10	NM VOC	THC
ECE driving	horizontal	2119	19951	13349	558	3830	6363	8482
	up-hill	3375	47481	28463	952	5717	9108	12483
	down-hill	2207	12089	7486	280	1709	3113	5319
AV.40 Km/h	horizontal	1356	10035	8583	272	2490	6325	7682
	up-hill	1847	24365	17437	464	3702	9032	10879
	down-hill	876	5711	4643	137	1143	3046	3922
AV.60 Km/h	horizontal	1677	14244	4566	235	2334	3838	5515
	up-hill	2183	37266	8377	379	3380	5285	7467
	down-hill	735	7784	2517	126	1153	1976	2711
AV.80 Km/h	horizontal	1711	15293	2049	242	2390	3214	4925
	up-hill	2189	33893	3367	384	3531	4211	6400
	down-hill	1015	8663	1408	140	1274	1789	2804