

RESEARCH ON INDICATORS CHARACTERIZING THE MOVEMENT OF VEHICLE FLOWS ON MOUNTAIN HIGHWAYS

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Abstract:

This article examines the characteristics of traffic on mountainous sections of roads in the conditions of the Republic of Uzbekistan, analyzes the intensity and composition of traffic flows, characteristics of road conditions, and road accidents.

Keywords: intensity, traffic accidents, climbs, descents, recovery from an accident, braking, roads, limited visibility, overtaking, longitudinal slope, roadbed, steep descents, speed on descents. small radius curves.

"Kamchik " pass sea 2260 m above sea level located . On the mountain temperature to the valley relatively low, why? decrease gradient every 100 meters on the rise about 0.5 C° organization The mountain annual precipitation fall every 100 meters 40-60 mm when lifting increases , air pressure decreases .

Mountainous roads right on the road relatively his/her own technician description through separated stands especially traffic safety many slopes , small radial turns , serpentine , various in the direction many once returnable turns , horizontal territory length low , safe stop , stop stand for enough place shortage , some in the territories small see distance , mountain migrations , erosions , rockfalls , enough maneuverability for difficulties , precipices of the road commute to the part close location impact shows .

Mountainous to places seen car road transport- operational description and order of action right from the roads big difference does . The pass high in places of the air thinning carburetor engine to cars noticeable impact does not show but , dynamic factor and this decreases by 10-15% at higher altitudes . In Uzbekistan this status A-373 "Tashkent- Andijan -Osh" car 116-196 km of the road of cars load transportation to the conditions big impact shows .

Mountainous the roads when designing , landscaping and traffic safety organization in the process of attention with of the relief diversity and separately place to hold knew received without the following into account is taken : difficult geological system , every kind mountain slopes in view ,, soil layer small stagnation , daily temperature amplitude noticeable change , wind , mountain rock movements , mountain water stream , snow migration and so on .

Mountainous stones on the roads and snow move prevent to take for the purpose special solid wall (iron or concrete column and commute stone and snow fall possible was to places special barrier devices build to the goal is appropriate .

Mountainous on the roads held experiment traffic safety at work in providing place catchy system vehicles from elements stream movement descriptive indicators studied . These are the A-373 "Tashkent- Andijan -Osh" highway of the way mountainous from the territory passing vehicles flow, movement intensity , composition , speed and interval time studied .

Vehicles intensity 8:00 a.m. ⁻⁶ : ⁰⁰ p.m. until , of the week Monday-Saturday days between was held . The intensity analysis to do this showed that of the week Monday , Friday 3200-3500 days , Tuesday , Wednesday and Thursday days and per day (8 ⁰⁰ -18 ⁰⁰ up to) up to 2800-3200 cars moving 92% of vehicles are light cars , around 7% load cars , around 1% other types of vehicles organization would do It's morning . mainly From Namangan to Tashkent , in the afternoon after and From Tashkent To Namangan and evening-night load cars intensity take progress was determined . Especially 17:00 ⁻¹⁹ : ⁰⁰ until every two direction according to intensity mutual equation to the level of arrived goes .

Ascent slope from 20% (per mille) to 60% (20,30,40,50%) this in between when increased speed significantly increased by 10 km/h goes to this reason cars big acceleration with up strives for , this own from himself at speed noticeable to increase take comes , that is speed increased from 105 to 115 km/h is going on .

Ascent As the slope exceeds 60% (per mile) , the speed increases to 60 km/h . decreasing goes , the car is up to 60% acceleration and speed increase for power enough will be , air low dilution , normal pressure will be . Mountainous of the road high in parts rise on the slopes air thinning high pressure low car dynamic factor to decrease this spontaneously power to decrease from this and speed to decrease take is coming. Speed above 60% rise from 115 km/h to 55 km/h on a slope decrease is determined. Mountainous on the roads of the car down

when falling slope from 20% to 70% (per mil) when increased speed up to 50 km/h increases , that is speed from 100 to 150 km/h increases . After 70% speed decreasing goes to this because it 's steep fall slope , driver the car down manage begins , this spontaneously the car his/her own kinetic energy at the expense of to the speed speed added , this is traffic safety for very dangerous then , driver speed to reduce forced will be , it is lower in transmissions brake system permanent used without role manages .

From this outside mountainous of roads small radial in curves speed decreases , increases radial in the curve see distance improve , speed increases .

Car every how on a radius ($R \geq 50$ m) curve was any to a vertical height of one (30 ÷ 90%) per mile or towards a steep slope (downhill) when moving , rising with on the descent speeds

differ by 10 km/h that is , to rise from the speed fall speed less than 10 km/h will be or on the contrary .

Conclusion as this to say maybe mountainous vehicles on the roads when driving separately to skill , ability and to the qualification has to be must . Mountainous on the road car management right on the road to manage relatively own transportation technician description in terms of differs . Preceding driver steep climb or steep slope side the car bottom in transmissions management , appearance distance and curvature radius small was in the territories speed reduce the car stagnation caught without control , precipitation and at night management to the conditions action to do " Kamchiq " pass roads commute part expanded , covering cemented concretes laid down world to the standards suitable as is being repaired , this road our country territory for example blood root , this road our state promising in the years to develop and to prosperity and our people to his glory big contribution We know it's addictive .

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