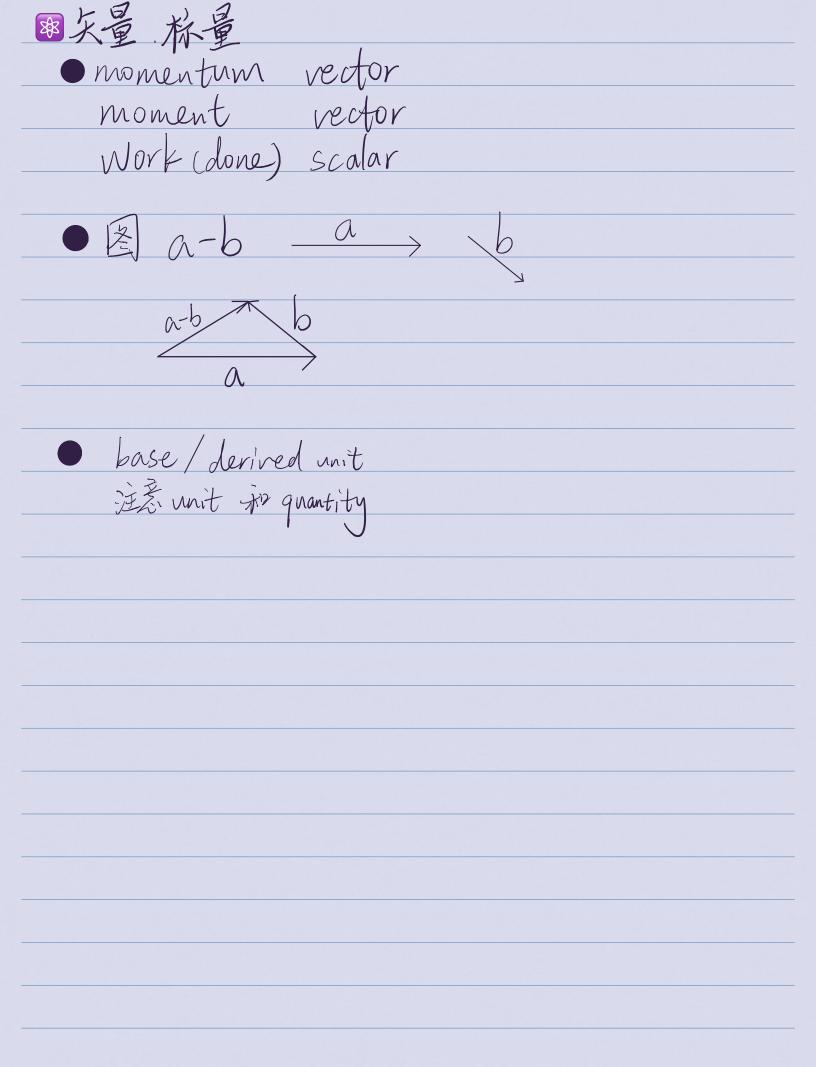
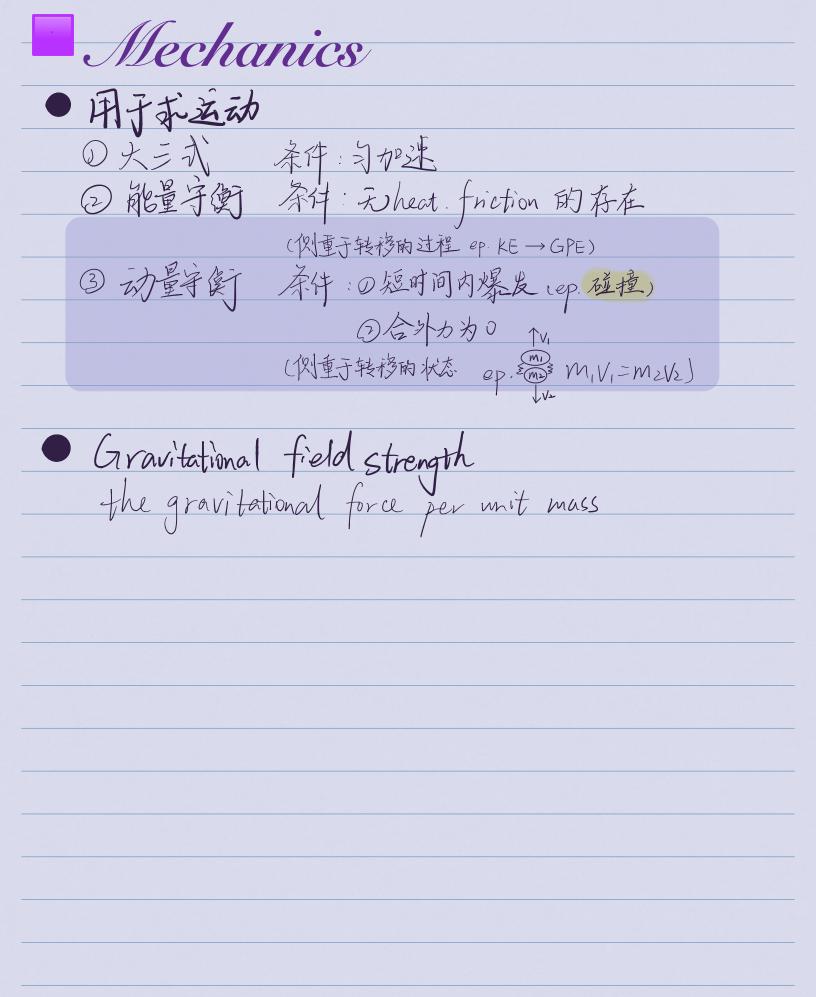
Unit 1 mechanics materi moventy motion \Rightarrow fluid materials Energy > Solich explain how/why -> reason
explain sth -> describe + reason ●实际运用类处态处核的 ① 简化思想 > 图文后一 ②模型归一 > 常见运动模型 ③转化初理量

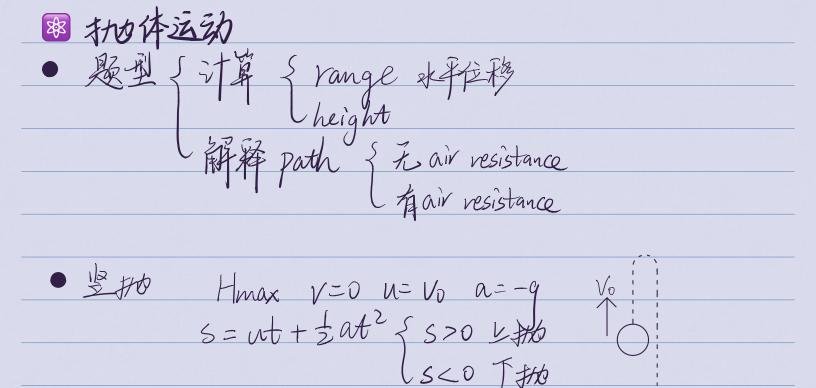
(6) 得分三條3 逻辑起运和逻辑终点,还有逻辑证据

⑤公式厂目中找影响图素





寒地	运动		
• Calo	ulde	英连麻草 设	美面积
		取品: 0天为	间隔大
			轴与轴间的信息
			取 origin/截距
	7 不	能提到力	
• Des	cribe	4	V terminal velocity
mo	tion		
		constant velocity	1 accelerate with a
		gradient = v = 2t	degreasing rate
			horizontal { S
		描述方向	la
			vertical { }
			la
· Ple	ot 1	1. 确定起点和终点的两个	个坐标; 确定斜率; 注意正方向
	-		图形占据坐标纸不少于2/3 的空间 量选原点或截距;gradient是2点的关系
		3. 注意横纵轴的量	重起/永杰线展记, gradient定之点的人永



•
$$\not$$
 the horizontal V_0 vertical $U=0$

$$S=V_0t$$

$$S=\frac{gt^2}{2}$$

$$2: V_{2x} = V_{0}\cos\theta = constant$$

$$y_{0} \qquad y_{2} \qquad U_{y} = V_{0}\sin\theta$$

$$y_{0} \qquad b = \frac{V_{0}\sin\theta}{g}$$

$$y_{0} \qquad vange \qquad B \qquad g$$

$$y_{0} \qquad vange \qquad V_{0}\sin\theta$$

$$y_{0} \qquad vange \qquad V_{0}\cos\theta \qquad vange \qquad V_{0}\cos\theta \qquad vange \qquad van$$

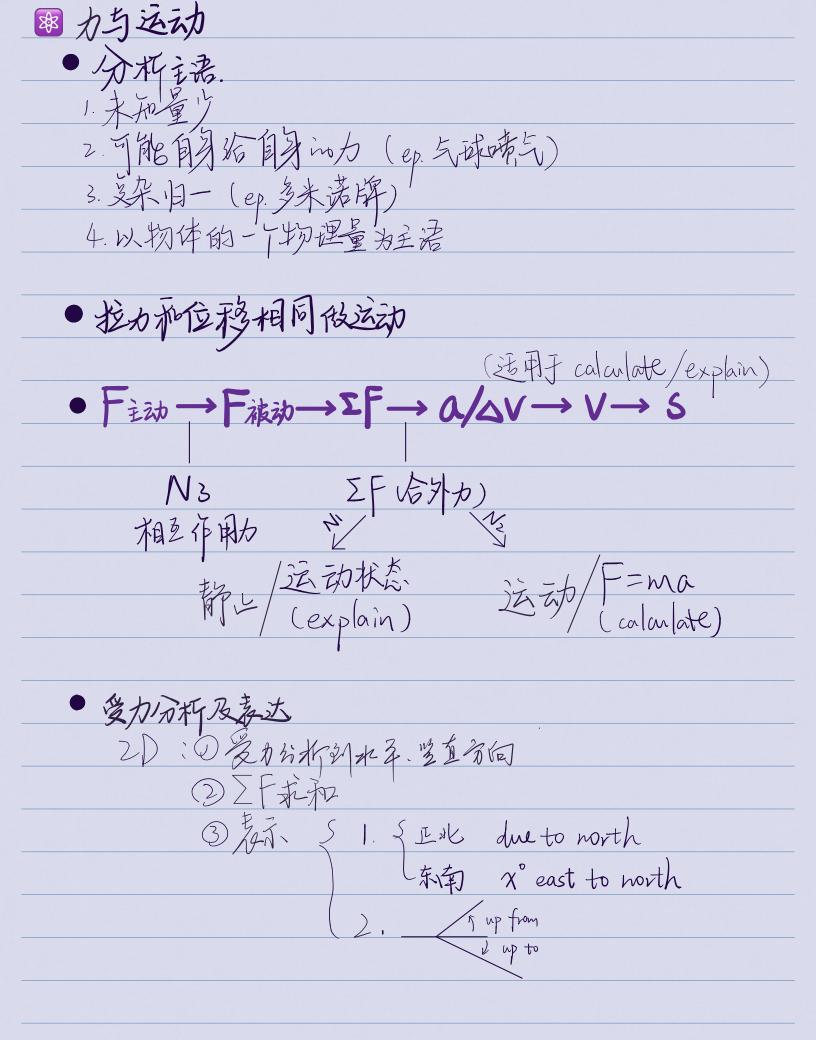


图 为天已 perpendicular distance between force and pivot M=rxドシスト V_ (level ann)×F=rFsind M=rxドラスト + 逆时計 - 逆时計 (#th linear motion) Moment egnilibrium • 为起于街计算 1.福港村子 2.2 pivet 3. 标记为/为港 4. Ziff egnilibrium of momentum 2.たかわり

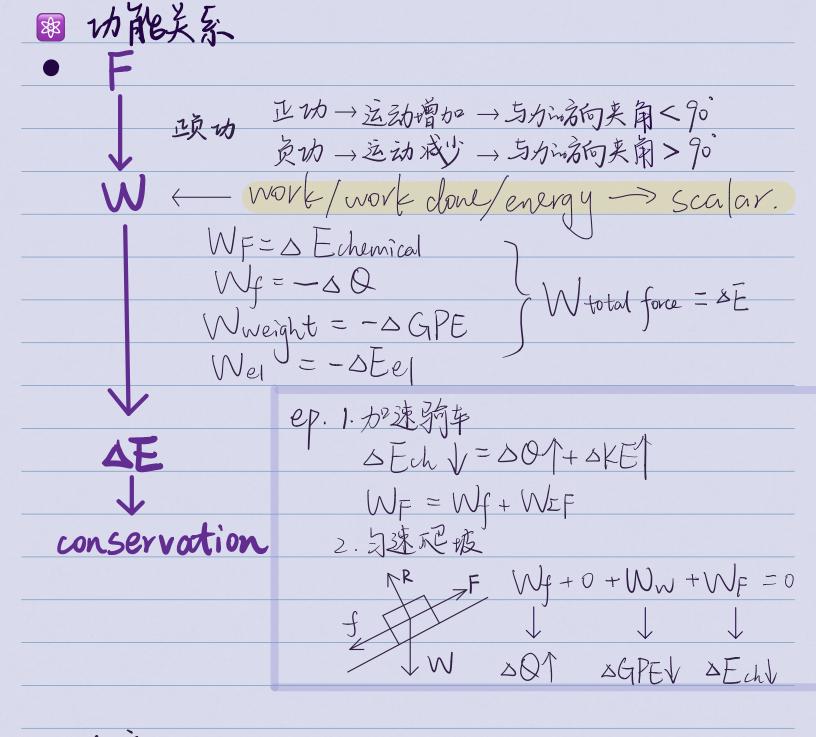
らんなんであり

分清重四和支点 A centre of gravity Div

a point at which all the weight of an object appears
to act on Principal of moment

in equilibrium, the sum of anticlockwise moments

= the sum of clockwise moments



歌动量

・技術 (trans) $\triangle P_1 = \triangle P_2$ Lobject 改多) $M_1V_1 + M_2V_2 = M_1V_1' + M_2V_2'$ 子質式 (con) $\Sigma P = \Sigma P'$ (time 改多) $M(V_1' - V_1) = -M(V_2' - V_2)$

・ 通注 N_2N_3 推穿記量 根据 N_2 $\triangle P_1 + \triangle P_2 = \sum_{i=1}^{n} + \sum_{i=1}^{$

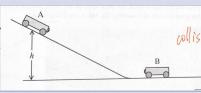
• 用于求运动

①大三式条件:为加速

②能量子對 条件: 无heat friction 的存在

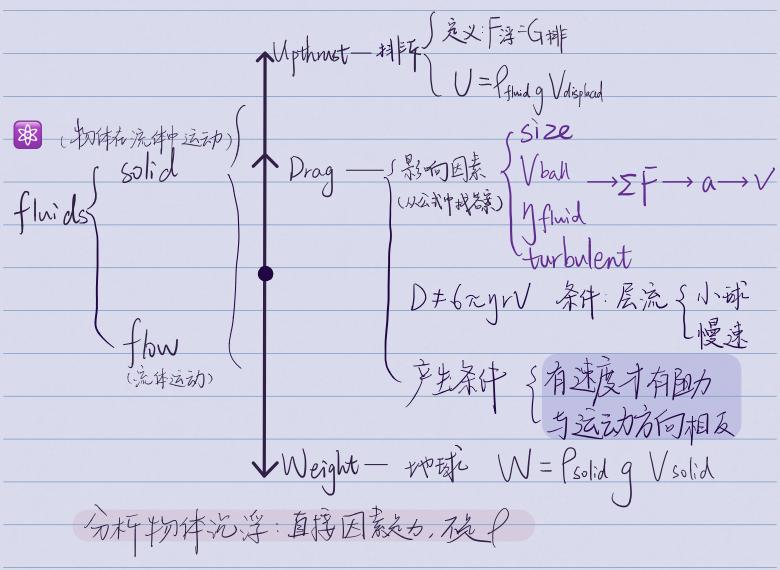
③动量产野茶件: ①短时间内爆发 (ep.碰撞)

→ 沒有達好的碰撞一定不能用能量手续 可以先用能量手续再用动量手续



· Conservation of linear momentum
Conservation of linear momentum the sum momentum before a collision is equal to the sum of momentum after a collision, if moexternal force act.
of momentum after a collision, if mexternal force act.
$\sum 1' = \triangle P = \sum F \times \triangle t$

Materials

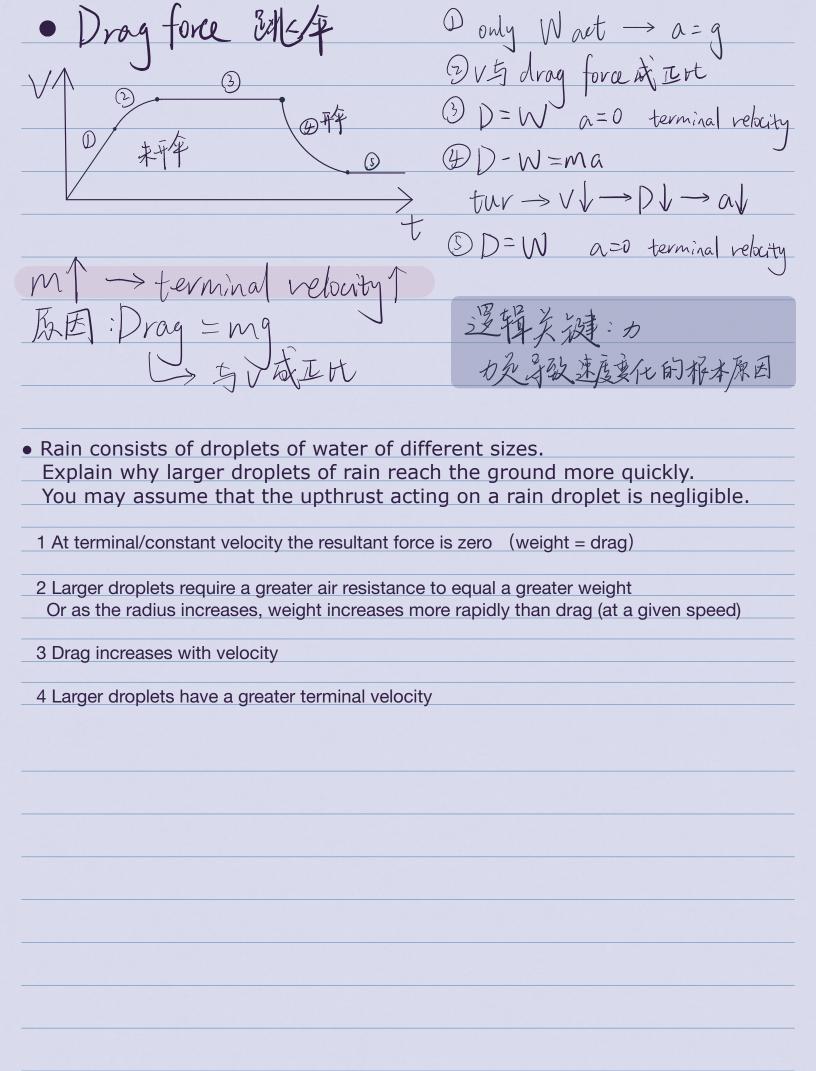


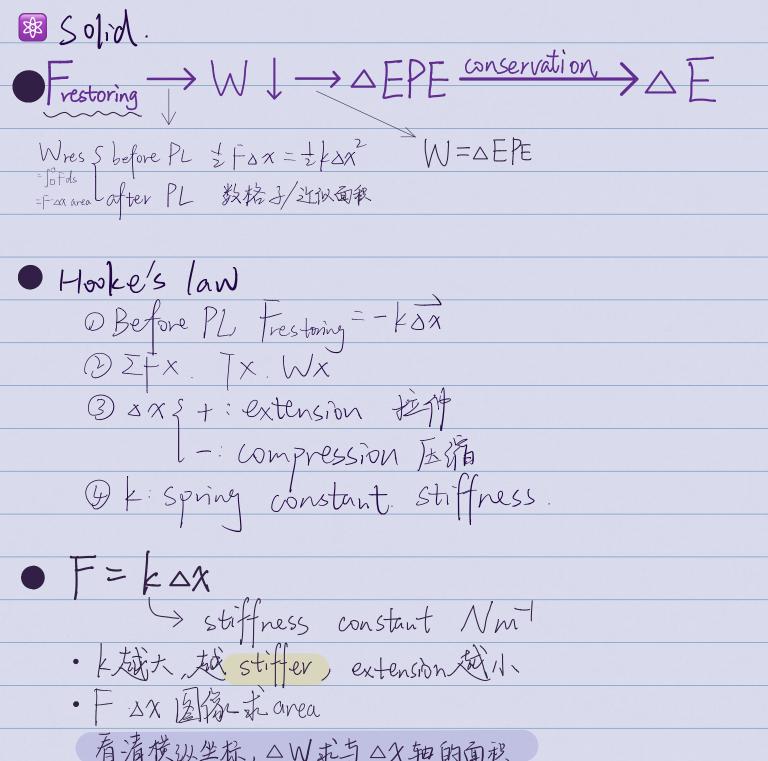
Viscosity

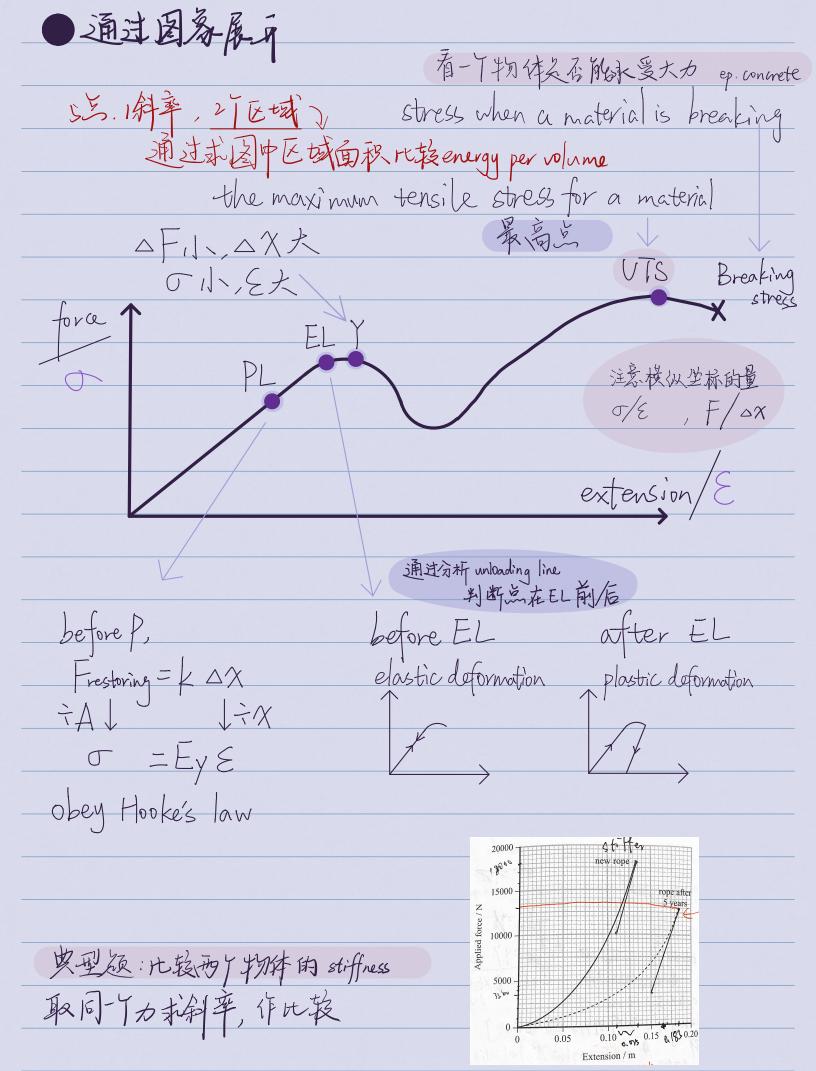
{ gas: y ∠ T T↑→ y↑→D↑→ΣF→ rate of flow

liquid: y ∠ T↑ T↑→ y↓

def. resistance of a fluid to flow









KES ruler more accurate,
micrometer FBR / better precis
■材料 / Screw gange ep. 事件直径
More accurate, more accurate, micrometer FR better precis. Screw gauge ep. FR BE vernier calliper isstrict? Inge accuracy
重直: set square 三种 * percentage accuracy
提步 { hand -gloves
Shand -gloves eye - goggles face - mask
通过图图法我从差错,和best filme,科主
海迪国国法核水差错, 和best fitho 群年 然 (random error: 不可避免 多草几次, 取平均值
Derror
Systematic emor: 河港 { zero error 器材末日0
parallex error RE
Systematic emor: The Szero error http:// parallex error the measure that eye leve
* uncertainty

accuracy 精确度 the accuracy Domeasure at different position because actural may not be uniform 3 calculate the average because it can reduce random error 1. A digital camera in sost O no reaction time 2) can be paused 3) can be read every frame 2. 用 data logger no 奶处(数据检测器) D mensure 2 data simultaneously D more readings ●画图法好处 D greater occuracy D clearly show the rate varies ●数据处理 光排除异常值,再求平均