【実験E1】

1．目的

本実験では、煙風洞を用いて、円柱、平板、翼の周りの流れがどうなっているのかを観察し、物体によって流れが違うのはなぜかを考える。

2．原理

2.1カルマン渦の周波数の測定方法

　円柱や平板に同一の方向から風を送ることで気流を作り、その気流を可視化してみると、円柱、平板まわりの流れがよくわかる。観察してみると、円柱直後に巻き込む流れは渦になっており、その渦は上下で交互に規則性をもって後流に流れていく。平板で同じような流れ・渦が観察できる。このような二次元物体後流の渦はカルマン渦と呼ばれている。

　またカルマン渦の周波数f [Hz]は以下のように表される。

ここで、V [m/s]は流体の速度、L [m]は主流に直角の物体の長さである。Stはストローハル定数で、実験中に配られた文献(1)より求めることができる。以下には周波数fの算出に必要な、速度V [m/s]、ストローハル定数Stの求め方を記述する。

2.1.1　流体の速度V

　流体の主流速度の測定には、ピトー管を用いる。

　ここで、pは静圧、は全圧、は流体の密度、Uは流速である。(2)式を変形して、流体の主流速度は以下の式で求められる。

2.2.1　ストローハル数の測定

ストローハル数Stはレイノルズ数Reと

として求まる。とmはレイノルズ数Reより参考文献(1)から決定する。

2.2.2　レイノルズ数Reの測定

　レイノルズ数Reは以下のように表せられる。

ここで、Vは流体の主流速度 [m/s]、dは物体の直径 [m]、は動粘性係数で、粘性係数と密度を用いて、で表される。

2.2.3　空気の粘性係数の求め方

　空気の粘性係数を以下のサザーランドの式を用いて算出する。

ただし、Tは流体温度 [K]、、、とする。

2.2.4　密度の求め方

理想気体の状態方程式と密度の式より

と表せ、密度が求まる。実験では圧力P=1006 [hPa]、温度T=298.2 [K]、ガス定数R=287.1として密度を求める。

以上の式より、流体の主流速度V [m/s]、ストローハル数Stを求め、カルマン渦の周波数を求める。

3．装置・手順

3.1　風洞

　風洞は風を送り出す役割を持つファン、流れを綺麗にする役割を持つメッシュ、流れを真直ぐにする役割を持つハニカムからなる。この3つにより綺麗な流体が観察することができる。

3.2　スモークワイヤ発生装置

　流動パラフィンを電線に伝わらせ、電線に電流を流すことにより流動パラフィンを気化させる。気化された流動パラフィンは白く目視することができるため、それをシート状の煙として発生させることで、流れを観察することができる。

3.3　熱線流速計

　各物体の後流の流速を測るためにI型熱戦プロープと熱線流速計を用いる。I型熱戦プロープはタングステン線でできており、熱線流速計のセンサ部の温度が一定に保たれるように電流を流す。センサ部は測定流体にさらされており、センサ部から測定流体への熱伝達量に応じてセンサ部を流れる電流は調整されている。この調整に使用している電流の大きさによって測定流体の流速は計測され、この調整はフィード・ブリッジ回路で行われている。流速U [m/s]とブリッジ回路Eには、Kingの法則として知られる以下の関係がある。

ここで、AとBは定数であり基準流速を用いた検定により決定する。

【実験手順】

①円柱後流のカルマン渦の渦放出周波数の計算

1．ノギスで円柱の直径を計測し、ノートに記録した。

2．ピトー管が接続されている差圧系の値を読み、全圧と静圧の差圧をノートに記録し、流速Vを求めた。

3．式(6)(7)より、粘性係数μ、密度ρを計算し、求めた流速V、直径dよりレイノルズ数Reを求め、記録した。

4．求めたレイノルズ数と参考文献(2)より、を決定し、ストローハル数Stを求めた。

5．以上で求めた値と式(1)より、周波数fを求めた。

②可視化による放出周波数の確認

1．初めに円柱を煙風洞に設定し、煙風洞のスイッチを入れ、電熱線に電流を流し、コックを開け流動パラフィンを電熱線に伝わらせた。

2．可視化されたカルマン渦を撮影するために、デジタルカメラのピントを煙に合わせ、ハイフレームレート撮影を行った。

3．撮影した動画を再生して、1秒間のカルマン渦の発生数を数え、ノートに記録し、平均値を出し記録した。

4．円柱を平板に変え、同じ測定を行った。

③熱線流速計による物体後流の測定

1．熱線流線形測定状態にし、円柱後流中に円柱のごく近くに設置した。

2．熱線流速計の信号をエクセルデータとして保存した。

4．1~3を円柱から平板に変えて同様に行う。

5．センサの位置は変えずに平板を取り外し、熱線流速計の信号をエクセルデータとして保存した。

6．センサの位置を5．よりも遠い位置に設定し、熱線流速計の信号をエクセルデータとして保存した。

④翼端渦の可視化

1．翼端型を流れの中に設置する。

2．可視化された流れをスケッチする。

4．結果

実験の条件下での各種の条件を表1にまとめる。

|  |  |
| --- | --- |
| 表　実験下での各値 | |
| 室温T [K] | 298.25 |
| 粘性係数μ | 183781 |
| ガス定数R | 287.1 |
| 流速U [m/s] | 1.337 |

実験で測定した値、熱線流速計、理論値をまとめた表を複数に分け以下に示す。

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 表２　カルマン渦のカウント数 | | | | |
|  | 円柱 | 周波数(円柱）[Hz] | 平版 | 平板（周波数）[Hz] |
| 測定１ | 95 | 24.1 | 95 | 24.1 |
| 測定２ | 135 | 34.3 | 97 | 24.6 |
| 測定３ | 140 | 35.6 | 99 | 25.1 |
| 測定５ | 132 | 33.5 | 100 | 25.4 |
| 測定５ | 120 | 30.5 | 100 | 25.4 |
| 測定６ | 109 | 27.7 | 106 | 26.9 |
| 平均値 | 121.8333 | 30.9 | 99.5 | 25.3 |

|  |  |  |
| --- | --- | --- |
| 表３　カルマン渦のそれぞれの値 | | |
|  | 円柱 | 平版 |
| 測定値 | 30.9 | 25.3 |
| 熱線流速計 | 37 | 25 |
| 理論値 | 37.9 | 28.2 |

熱線流速計で得たデータをエクセルのグラフに反映し、そのグラフを以下に示す。

各物体の流れのスケッチを以下に示す。

![線画 が含まれている画像

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SNgRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEV4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDE4OjExOjE0IDAyOjE2OjE2AAAIkAMAAgAAABQAABE0kAQAAgAAABQAABFIkpEAAgAAAAM0NwAAkpIAAgAAAAM0NwAAoAEAAwAAAAEAAQAAoAIABAAAAAEAAAN6oAMABAAAAAEAAASk6hwABwAACAwAAAkoAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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図５　流れのスケッチ（円柱）

無脊椎動物, 動物, 節足動物 が含まれている画像

自動的に生成された説明

図６　流れのスケッチ（平板）

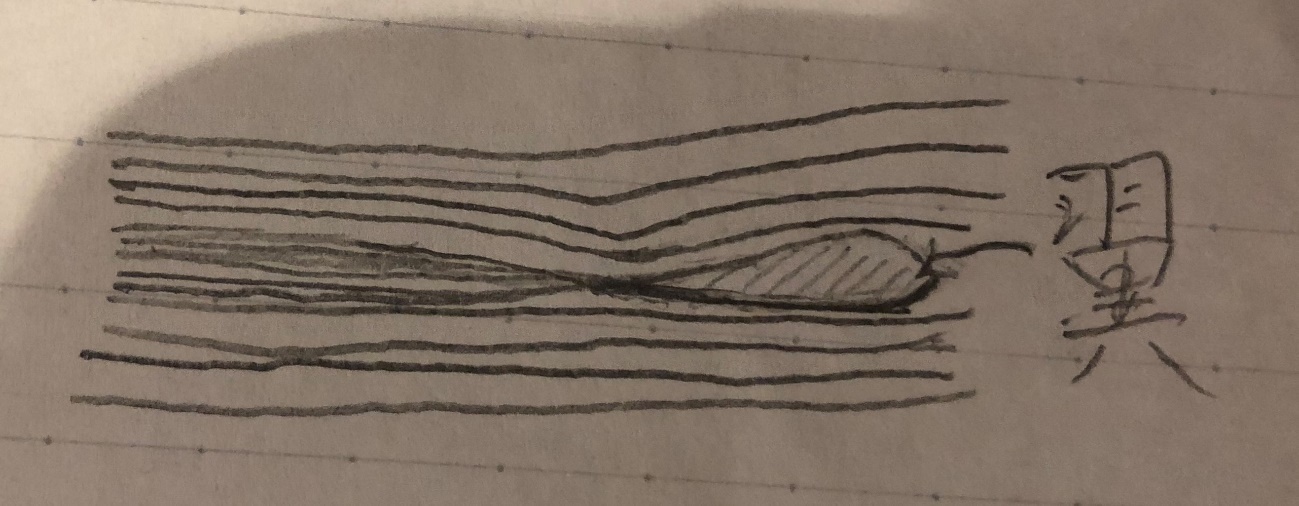


図７　流れのスケッチ（翼・角度0度）

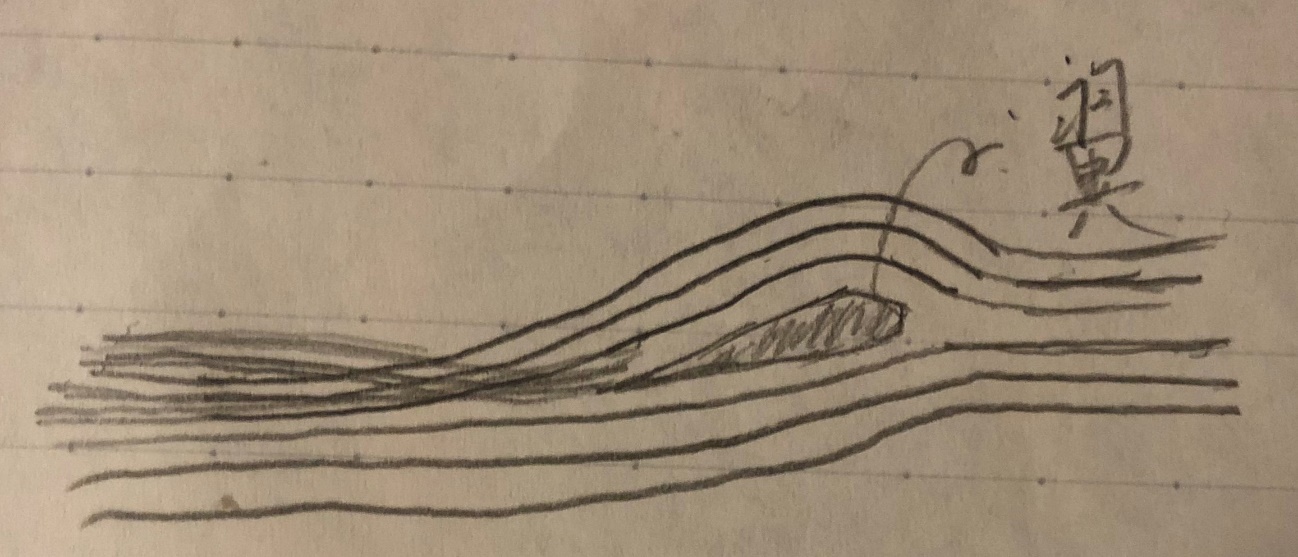


図8　流れのスケッチ（翼・角度15度）

5．考察

5.1「後流」、「剥離点」、「剥離泡」とはそれぞれ何か。また円柱と平板でのそれぞれの違いを説明せよ。

①後流

流れの中の物体の後方に生まれる流れが乱れた領域であり、粘性によって流れの速さが遅くなることによって生じる。また後流の流れの模様はレイノルズ数によって著しく異なる。

②剥離点

流れの中で、上流よりも下流の圧力が高い場合、物体の表面の粘性によって摩擦が生じるため、下流での速度低下によって流れが圧力に逆らえなくなる。逆らえなくなった流れは物体の表面から剥離してしまい、また剥離する位置を剥離点という。(3)

平板は必ず角が剥離点になるが、円柱の場合剥離点はレイノルズ数に依存する。（2）

③剥離泡

剥離点で剥離した流体が、元に戻る位置を再付着点といい、剥離点から再付着点までの間を剥離泡という。

平板では角で剥離するため剥離泡は生まれないが、円柱では剥離泡は生まれる。（2）

5.2

円柱、平板の可視化動画から求めたカルマン渦の周波数は理論値と円柱で特に大きく異なった。考えられる原因は

1．人間がカウントしたため、数え切れていない渦が存在していた。

2．測定地１の値が他の値と大きく異なった。

3．可視化したカルマン渦が見づらく、測定し忘れた値がある。

5.3

円柱後流・平板後流の可視化動画可視化動画から求めたストローハル数と、熱線流速計から

求めたストローハル数をまとめた表を以下に示す。

|  |  |  |
| --- | --- | --- |
| 表5　各値のストローハル数 | | |
|  | 円柱 | 平板 |
| 測定値 | 0.023 | 0.019 |
| 熱線流速計 | 0.028 | 0.019 |

表からわかる通り、平板では値にほぼ差はないが円柱では差が生まれた。円柱で差が生まれ

たのは、測定値が真の値から大きく外れているためであると考えられる。平板が一致したのは、どちらも測定誤差を起こしているが、その誤差が偶然一致したと考える。また偶然であるかどうかは測定回数を増やすことにより求まる。

5.4

図４から物体から離れた下流位置では熱線流速計の信号は周期的でないことがわかる。これは物体から離れた下流位置ではカルマン渦は消失しており、元の不規則な流れに戻るからであると考えられる。

また図１，２より平板後流と円柱後流の比較を行う。平板後流よりも円柱後流のほうが周期が短いことがわかり、これよりストローハル数が小さいことがわかる。

5.5

翼端に渦ができるのは、上面と下面による圧力差に原因がある。上面と下面に圧力差が生まれることで、下面の流体が上面に流れ込もうとし、翼端で渦が発生するのである。

また迎え角が大きくなると、上面での渦の発生数が多くなり、その渦が抗力となり揚力を妨げる。

6．結論

物体の流れを観察し、スケッチしたことでそれぞれの物体の流れの違いについて理解することができた。違うのは、各物体の形状が違うからだということが理論的に理解できた。

7．参考文献

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【実験E2】

1．実験目的

流体においても質量保存則、運動量保存則が成り立つことを実験的に理解すること。

2．原理

図1に平板に衝突する円形噴流の概略図を示す。直径dの円形断面を有するノズル出口より、流速Uの噴流が大気中へ上方(y方向)に吹き出している。噴流は平板衝突し、平板に沿

って放射状に流れ広がっている。この噴流が平板に及ぼすy方向の力をFとする。ここで、ノズル上流部の直径をD、ここでの流速をとすると、質量保存則から以下の関係が成り立つ。

また、ノズル上流部での圧力を、大気圧をとすると、ノズルの上流部と出口の間でのベルヌーイの式は以下のように表される。

ここで、は空気の密度である。(1)式を(2)式に代入すると、ノズルの出口での流速Uは以下のように求められる。

実験中では、水とシリンダーを用い、水の密度、圧力差によって生まれた高さhより、差圧を求める。二つの間にはの関係が成り立つ。

ここで、図1の破線で囲まれた領域を検査面と設定すると、検査面の下部から流入する流体の運動量は、

となる。流れは平板に衝突することで方向を変え、検査面から流出する流れはy方向の速度成分を持たないことから、流出する運動量は０となる。

よって、y方向の運動量保存則は、

となることから、Fは以下のように求められる。

3．装置・手順

【装置】

実験装置の概略図を以下に示す。

図1　実験装置概略図

今回の実験でははかりが壊れたため、はかりの値が実際の値とどれくらい離れているのかを求め、実験を行った。はかりの調整方法を以下に示す。

a.実験で使用するはかりに適当な物体を載せ、その値を記録した。

b.電子ばかりに物体を載せ、その値を記録した。

c.実験で使用するはかりと電子ばかりの値の比を求め記録する。

d.a~cを4回繰り返し、その平均値をとった。

【実験手順】

1．平板を、噴出口の面と平行になるよう、噴流口上部に設置した。

2．小型風洞の回転数を調節し、平板への衝突噴流を形成した。

3．水とシリンダーを用いて、水の密度、圧力差によって生じる高さhより、ノズル上流部のゲージ圧を測定した。

4．空気の密度と、与えられたノズル形状のパラメータD、dを用いてノズル出口の流速Uを求めた。

5．求められた流速Uから、噴流の運動量を求め、平板にかかる力Fを求めた。

6．運動量保存則より求めたFを、はかりを用いて測定した平板にかかる力と比較した。

7．流速、平板の角度、平板の形状等のパラメータを変えて、噴流が板に及ぼす力の測定を行う。その際、平板周りの流れとその運動量バランスの変化について考察した。

4．結果

4.1　流れ

①幾何形状

ノズル出口の直径dは40mm、ノズル上流部の直径Dは146mmとする。

②圧力と流速の関係

圧力と流速には、ベルヌーイの式より式(2)のような関係がある。

4.2　平板

①流速・角度と運動量の関係の理論値の導出過程

流速が持っている運動量は式(4)のようになる。平板に対して流速Uが角度θでぶつかった場合、流速が平板に与える運動量Mは以下のようになる。

以上の式を用いて理論値を導出する。

②流速・角度と力の関係、理論値と実験値の比較

流速・角度と力の関係、理論値と実験値のグラフを以下に複数示す。

4.3　半球

①流速と力の関係

半球の各測定値を以下に示す。

|  |  |
| --- | --- |
| 表１　半球（下に突） | |
| h [mm] | U [m/s] |
| 1.5 | 4.97 |
| 6 | 9.93 |
| 14 | 15.17 |
| 25.5 | 20.48 |
| 38 | 25 |
| 53 | 29.52 |

|  |  |
| --- | --- |
| 表２　半球（上に突） | |
| h [mm] | U [m/s] |
| 1.5 | 4.97 |
| 6 | 9.93 |
| 14 | 15.17 |
| 25 | 20.27 |
| 39 | 25.32 |
| 55 | 30.02 |

ノズルから出た噴流の流速を、ノズルの面積を、半球から離れた時の流速、面積をとすると、となる。

また運動量保存則より、

となる。

4.4　テニスボール

①テニスボールを浮かせるための流速

テニスボール（重さm=62 g、直径 d=63 mm）を円形風流により浮かせることを考える。その時の流速Uは、=48.15 m/sであった。

5．考察

5.1

実験値と理論値に差が生まれたのは、正確な値が計測されていないからであるが要因は

1．計測で使用したはかりが壊れていたため、そこで誤差が生じていた。

2．パソコンに表示される力の値がすぐに変化してしまうため、タイミングが違ってしまった可能性がある。

の2点があげられる。

5.2

半球が下に突でも上に突でもは変わらないことが実験よりわかった。これは流体が流れる面積Aが下に突の時でも上の突の時でも変化はない。そのためかかる力Fも変化がないと考えられる。

5.3

テニスボールを浮かせるために必要な流速の理論値Uはボールの重さm、重力加速度gよりとなった。計測値はU=48.15 [m/s]であったが、差分のはボールの外側に流れてしまっていった流体だと考えられる。

6．結論

誤差は出ているが、実験的にも質量保存則、運動量保存則が成り立つことが分かった。

7．参考文献

(1) 2018年度機械工学実験、明治大学理工学部機械工学科、不明、2018年7月、p77~p.78