

TOBB Ekonomi ve Teknoloji Üniversitesi

Elektrik – Elektronik Mühendisliği Bölümü

ELE311 – Analog Elektronik Devreler

## Proje Raporu - 2

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| Adı Soyadı | Hande Yıldırım |
| Numara | 141201047 |
| Tarih | 30.03.2020 |

1. **GİRİŞ**
   1. **Projenin Amacı**

Bu deneyde aşağıdaki özellikleri sağlayan bir yükseltici tasarlanması istenilmektedir:

a. Voltaj kazancı: 500

b. 8 Ω üzerine 5 W RMS güç verebilmek.

c. Eşik frekansları: 20 Hz – 1 MHz

Bu özellikleri sağlayan bir yükseltici çok katlı olacaktır. İlk rapor için 3 katman kullanılarak tasarım yapıldı, fakat daha sonrasında yapılan hesaplamalar sonucunda 4 katmanda daha iyi veriler elde edilerek tasarım yenilenmiştir.

* 1. **Projenin Faydaları**

Bu proje yapılırken bir çok faydası olmuştur. Bunlar şu şekilde sıralanabilir:

* Altium, Eagle, Multisim, LT Spice gibi önemli tasarım programlarının kullanımı öğrenildi.
* Yükseltici analizlerinin yapımı anlaşıldı.
* Analog devreler ve çalışma mantıkları iyice öğrenildi.

1. **PCB TASARIM SÜRECİ**

Bu kısımda genel olarak PCB’nin tasarım süreci anlatılmıştır. PCB tasarımı yapmak için Altium programı kullanılmıştır. Sırasıyla yapılan işlemler şu şekildedirler:

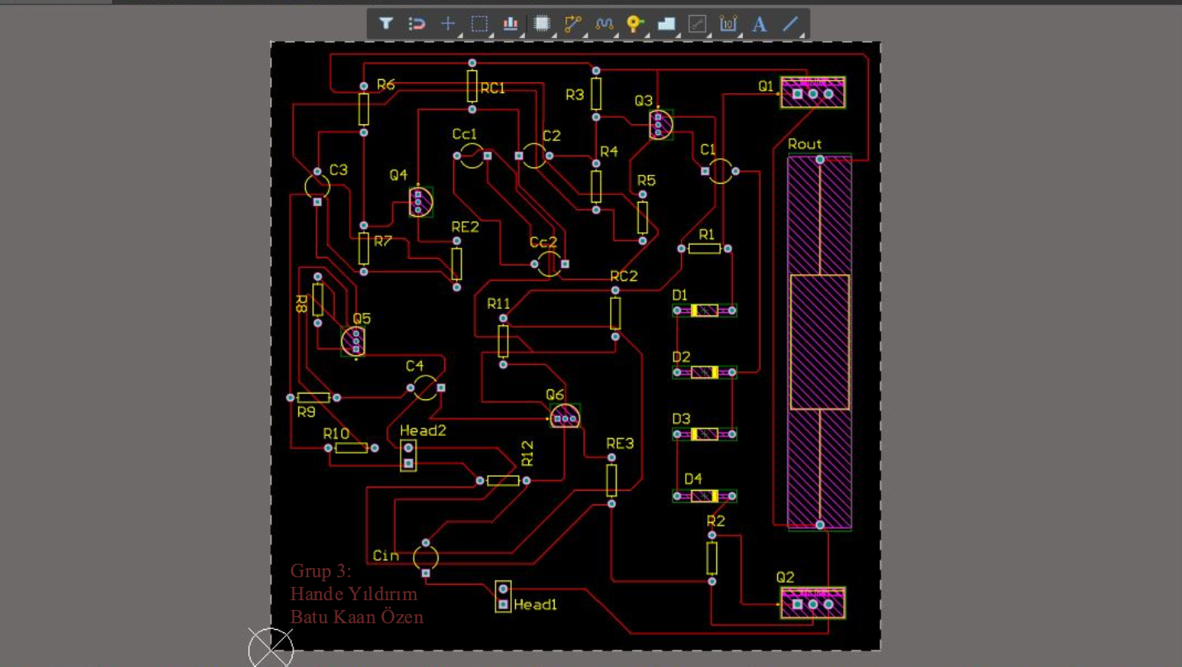
1. Öncelikle simülasyon programında tasarlanmış olan devre Altium’da şematik olarak çizilmiştir. Bu yapılırken kullanılan her bir materyal Altium’un var olan kütüphanesinden olmayanlar da internetten kütüphaneleri indirilerek şematiğe eklenmişlerdir.
2. İndirme işlemi sonrası direnç, kapasitör, transistör gibi devre elemanları kolaylıkla devreye eklenmişlerdir ve aralarına line kullanılarak kablolama yapılmıştır.
3. Ayrıca her bir katman arasında rastgele delikler koyularak PCB basımı sonrası buraya kablolar lehimlenip her bir katmanın kolaylıkla ölçümünün yapılması sağlanmıştır.
4. AC ve DC kaynak girişleri için ise header kullanarak buralarda VCC, -VCC, GND, AC voltaj girişleri oluşturulmuşlardır.
5. Şematik çiziminde son olarak devre elemanlarının isimlendirmeleri tamamlanmıştır.
6. Şematik çizimi tamamlandıktan sonra PCB dosyası oluşturuldu ve PCB’nin ölçüleri şu şekilde ayarlandı:
7. PCB Boyutları: 10cm x 10cm
8. Distance between conductors: 0.20mm
9. Conductor width: 0.20mm
10. Annular clearance PAD – Cu: 0.20mm
11. Copper PAD width: 0.80mm
12. Drill width: 0.35mm
13. VIA: 0.8mm – 0.9mm
14. Bu ayarlamalardan sonra şematikte yer alan devre PCB’ye aktarıldı.
15. PCB aktarımı sonrası devre karışık bir şekilde geldiğinden her bir malzemenin PCB üzerindeki konumları belirlendi.
16. Malzemelerin Hepsi PCB’nin Mechanical 13 katmanına yerleştirildi.
17. Sonrasında malzemeler arasındaki kabloların hiçbiri çakışmayacak şekilde tekrar kablolama büyük bir özenle yapıldı.
18. Daha sonra grup numaraları ve projeyi yapanların isimleri yazıldı.
19. En son devre bir kere daha hem 2D hem de 3D olacak şekilde kontrol edildi.
20. Kontroller bittikten sonra PCB’nin Bottom katmanına topraklama yapıldı ve PCB basımı için Gerber Dosyası oluşturuldu.

Tüm bu işlemlerin yapım aşamalarına göre şematiği Şekil 2.1’de ve en son elde edilmiş olan PCB’nin Şekil 2.2’deki gibi hem 2 boyutlu, hem de Şekil 2.3’teki gibi 3 boyutlu görselleri aşağıdaki gibidirler:

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDSRXhpZgAATU0AKgAAAAgABAE7AAIAAAAEdGltAIdpAAQAAAABAAAISpydAAEAAAAIAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAM5MgAAkpIAAgAAAAM5MgAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 2.1: Altium Programında Tüm Devrenin Şematiğinin Gösterimi



Şekil 2.1: Altium’da Şematikte Çizilmiş Olan Devrenin PCB’ye aktarılmış 2 Boyutlu Görüntüsü



Şekil 2.1: Altium’da Şematikte Çizilmiş Olan Devrenin PCB’ye aktarılmış 3 Boyutlu Görüntüsü

1. **YAPILAN DEĞİŞİKLİKLER**

Devre tasarımının yapıldığı ilk günden beri pek çok değişiklik yaşanmıştır. Bu nedenle raporda anlatılan pek çok açıklama ve yapılan hesaplamalar 1. Rapor’dan oldukça farklıdır. Bunlara örnek vermek gerekirse:

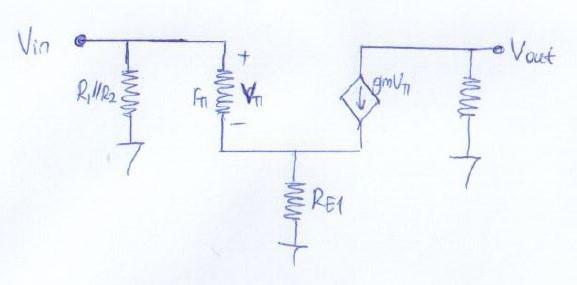
1. Devre 3 kattan 5 kata çıkarıldı.
2. 1 Common Emitter devresi yerine, bu devreden 2 tane kullanıldı.
3. 1 Emitter Follower devresi yerine, bu devreden 2 adet kullanıldı.
4. 200 elde edilen kazanç yaklaşık olarak 500 kazanca çıkarıldı.
5. 2W RMS güç yerine 5W güç çekildi
6. Kullanılan malzeme sayısı artırıldı.
7. Son olarak, 30 MHz’lik bir yüksek frekans kesim noktası bulunmak istendi fakat tüm hesaplamalar ve simülasyon sonucunda bu kesim frekansının elde edilemediği anlaşıldı. Bunun sebebi olarak da, piyasada bulunabilen ve tasarlanan böyle bir devre için 30 MHz’lik kesimi sağlayabilecek bir kapasitörün ve transistörün bulunmamasıdır. Şu anki tasarlanmış olan devredeki bu malzemeler maksimum 6 MHz’lik bir kesim yapabiliyorlar. Bu nedenle devrenin yüksek kesim frekansı değiştirilmemiş ve 1 MHz olarak bırakılmıştır.

Tüm bu değişikliklerin daha iyi anlaşılabilmesin için aşağıda yapılan tüm teorik hesaplamalar, yorumlar ve sonuçlar detaylıca anlatılmışlardır. Yani şimdi her bir PCB katının tasarımlarına ve teorik olarak hesaplamalarına aşağıdaki gibi bakılacak olursa:

* 1. **Ortak Emetör Yükselticisi (Common Emitter Circuit)**

Bu projede tasarlanan ilk katman “Common Emitter” yani ortak emetör yükselticisidir. Bu katmandaki asıl amaç projede istenilen kazancı elde etmektir. İlk rapordaki hesaplamalar 200 kazancına göre hesaplanmıştırlar. Fakat bu rapor 500 kazanca göre yazılmıştır ve tasarımda yine 500 kazanca göre yapılmıştır. Devreye zarar vermemek ve katman yükünü azaltmak amacıyla bu kazanç iki tane ayrı ortak emetör devresi kullanılarak (yani tüm devre de toplamda kullanılmış olan iki tane farklı ortak emetör devresinden elde edilen kazançların çarpılmasıyla) elde edilmiştir. Burada önemli bir nokta olarak, doğrudan 500 kazancı teorik olarak elde edip PCB üzerindeki devreyi de doğrudan bu değerlere göre kurunca elde edilen total kazanç gerçek hayatta PCB üzerine kurulduğunda amfi katından dolayı düşürülebileceğinden dolayı tasarım yapılırken toplam kazanç yaklaşık olarak 520 kazanca göre hesaplanmıştır.

Hesaplamalar yapılırken öncelikle devrelerin DC ve AC çözümleri yapılmıştır. Fakat öncelikle bilinmesin gereken bazı teorik bilgiler vardır. Küçük sinyal analizi ve Q-Point bu konulardandır ve aşağıdaki gibi açıklanmışlardır. Buna göre ortak emitör yükselticisinin küçük sinyal modeli aşağıdaki gibi Şekil 1.1’de verilmiştir:



Şekil 1.1: Ortak emitör yükselticisinin küçük sinyal modeli

Bu modele göre çıkış ve giriş gerilimleri aşağıdaki Denklem 1.1 ve Denklem 1.2’de verildiği gibi hesaplanırlar:

(1.1)

(1.2)

Gerilim kazancı denklem 1.3’deki gibi birbirine oranıdır. gmRE >> 1 olduğundan gerekli sadeleştirmeler yapıldığında kazanç değeri bulunur. Hesaplamalardaki kazanç değeri toplamda 525 olarak kabul edildi. İlk ortak emetör katmanı 35, ikinci ortak emetör katmanı ise 15 olarak tercih edildi. 525 kazanç 500’den büyük olarak kasıtlı seçildi. Bunun sebebi devredeki bütün katlar birbirine bağlandıktan sonra bir miktar kazancın düşme riskinin olmasıydı.

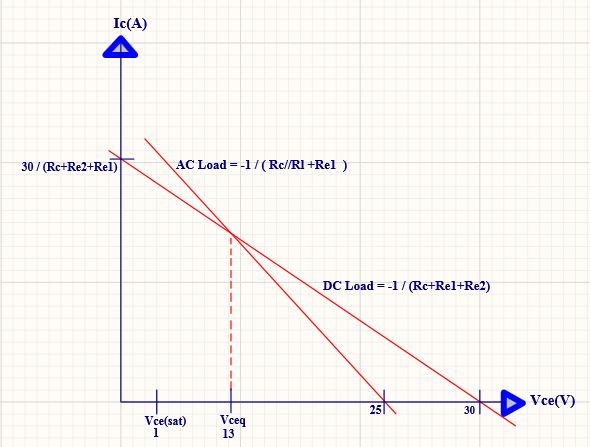
En son denklemler düzenlendiğinde ise tek 1 ortak emetör katmanı için aşağıdaki kazanç denklemi elde edilir:

(1.3a)

(1.3b)

(1.3c)

Kazancın yanı sıra Q-Point’e yani yükselticinin yük eğrisine bakılacak olursa:



Şekil 1.2: Ortak emitör yükselticisinin yük eğrisi (Altium’da temsili olarak çizilmiştir.)

Ortak emitör yükselticisinin yük eğrileri yukarıdaki gibi şekil 1.2’de verilmiştir. VCC degeri VCE’ye bağlıdır. RE direncinin etkiside hesaba katılarak, VCE değerinin maksimum degerinden yüksek seçilmelidir. Bu nedenle 15V olarak seçilmiştir. Transistör doyuma girdiğinde akım kazancı düşeceğinden bir miktar pay bırakılmalıdır. Tasarımda bu pay 1V olarak alınmıştır.

Transistörün diğer DC kutuplama parametresi ICQ’yü belirlemek için yük üzerindeki akım salınımını hesaplamak gerekmektedir. Yük üzerindeki maksimum voltaj salınımı, denklem 1.4’de verildiği gibi maksimum akım salınımı ile yük direncinin çarpımına eşittir.

(1.4)

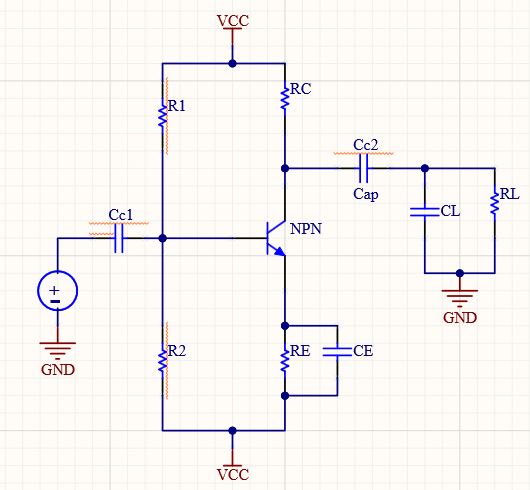
Kolektör akımındaki toplam salınım, yükteki akım salınımı ile RC direncindeki akım salınımın toplamına eşittir. AC yük eğrisi incelendiğinde maksimum akım salınımı denklem 1.5’de verildiği gibi yaklaşık olarak (2\*ICQ)’ya eşittir.

(1.5)

(1.6)

Bütün bu teorik bilgilerin yanı sıra devre hesaplamasında gerçekte öncelikle aşağıdaki gibi tek bir ortak emetör katı için kazanç hesaplaması yapılmıştır. Bu hesaplama sonrasında ise aynı katmandan devreye bir tane daha bağlanarak, yukarıda da söylendiği gibi, iki katmanın kazançları çarpılmıştır. Yani yine yukarıda söylendiği gibi yaklaşık 520 kazanç elde edilmiştir. Buna göre izlenilen yol şu şekildedir:

Öncelikle DC çözüm ile başlanır. Aşağıda temsili olarak çizilmiş olan şekil 1.3’teki devreye göre Thevenin eş değer direnci ve voltajı aşağıdaki eşitliklerdeki gibi hesaplanırlar:



Şekil 1.3: Ortak emitör yükselticisi temsili devresi(Altium kullanarak çizilmiştir)

(1.7)

(1.8)

Daha sonra Kirchoff Voltaj Kanunu kullanılarak aşağıdaki denklemler elde edilirler:

(1.9)

Buradan da şu denklem elde edilir:

(1.9a)

Sonrasında R2’ye bağlı olarak R1 direncinin denklemi aşağıdaki denklemler çözülerek elde edilir:

(1.9b)

(1.9c)

Bu denklem düzenlenirse sonuç olarak aşağıdaki eşitlik elde edilir:

(1.9d)

Yani rastgele verilecek olan bir R2 direnç değerine göre bu denklem kullanılarak R1 direnç değeri elde edilebilir.

Bundan sonrasında ise yazılan başka bir Kirchoff denkleminden:

(1.10a)

Böylece RE direnci çekilirse:

(1.10b)

Tasarım yapılırken transistör olarak BC238B kullanılmıştır ve bu transistörün ß değeri datasheetine bakılarak 290, VCE değeri 5V, VBE değeri 0.62V ve IC değeri de 2 mA olarak alınmıştır. Bu durumda IB ise şu şekilde bulunur:

(1.11)

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Şekil 1.4: Ortak emitör yükselticisi devresinin küçük sinyal eş değer devresi (Altiumda çizilmiştir.)

Daha sonra AC çözüm yapılır. Burada öncelikle küçük sinyal analizi yapılır. Bunun sonunca Rin değeri aşağıdaki denklemler kullanılarak şu şekilde bulunur:

(1.17)

(1.18)

(1.19)

(1.20)

Rout değeri ise aşağıdaki denklemler kullanılarak şu şekilde bulunur:

(1.21)

(1.22)

Voltajın akıma bölünmesi sonucu direnç şu şekilde bulunur:

(1.23)

Sonuç olarak:

(1.24)

Kazancı bulabilmek için ise aşağıdaki denklemler kullanılırlar:

(1.25)

(1.26)

Denklem 1.25 ve 1.26’nın birbirine bölünmesi sonucu:

(1.27)

AC analizdeki tüm bu hesaplamaları yapabilmek için öncelikle aşağıdaki değerlerin de bilinmesi gerekir:

(1.28)

(1.29)

Buraya kadar bütün formüller çıkarıldıktan sonra ilk olarak kazancın 520 olması durumuna göre bazı hesaplamalar yapıldı. Bazı değerler varsayılarak diğer bilinmeyenler bulundular. Yani en başta;

VCC = 15V, (1.30)

R2 = 2000Ω, (1.31)

VT = 26mV, (1.32)

IC = 2mA ve buna bağlı olarak IB = 0.018mA, (1.33)

ß = 290, (1.34)

rπ = 1430 kΩ, (1.35)

VCE = 5V, (1.36)

VBE = 0.62V, (1.37)

RC = 12100Ω, (1.38)

RL = 47 kΩ (1.39)

değerleri varsayılarak sırasıyla aşağıdaki denklemler hesaplanmıştır:

1. Denklem 1.15’ten RE = 398 Ω gelir.
2. Denklem 1.27’den kazanç AV = 23.3(tek katman için bulunan kazanç) elde edilir. Bu kazancın elde edildiği katmandan 2 tane kullanılırsa kazanç:

AV = 23.3 \* 23.3 = 5 (1.40)

olarak bulunur.

1. Son olarak denklem 1.13’den tek bilinmeyen olan R1 = 39 kΩ olarak bulunur.

Geriye bilinmeyen olarak devrede sadece kapasitör değerleri kalmıştır. Bu değerleri de bulabilmek için frekanstan faydalanılır. Bu projedeki kesim noktaları küçük frekans için 20Hz büyük frekans için 30 MHz olması istenmiştir. Devrenin düşük kesim frekansını CC1 kapasitörü doğrudan etkilerken büyük kesim frekansını ise C kapasitörü etkilemektedir. Bu değerleri teorik olarak bulabilmek için öncelikle frekans denklemi yazılır ve buradan her bir kapasitörü etkileyen direnç değerleri belirlenir. Buna göre en son bilinmeyenler bulunur.

Frekans denklemi bilindiği üzere aşağıdaki şekildedir:

(1.41)

Bu denklemden her bir kapasitörün teorik olarak hesaplanması şu şekildedir:

C1 kapasitörü için:

(1.42a)

(1.42b)

C2 kapasitörü için:

(1.43a)

(1.43b)

CE kapasitörü için:

(1.44a)

(1.44b)

CL kapasitörü için (Burada önemli bir detay olarak şunun bilinmesi gerekir: Yüksek eşik frekansı 30 MHz olması için Load kapasitörü bağlanmalıdır.) :

(1.45a)

(1.45b)

Tüm bu hesaplamalar sonrasında NI Multisim programı kullanılarak aşağıdaki gibi Common Emitter Devresi tasarlanmıştır. Bu tasarım yapılırken gerçek olan direnç ve kapasitör değerlerini kullanmaya çok dikkat edilmiştir. BOM Listesinde de görülebileceği devre için kullanılabilecek olan tüm dirençler reel değerlere sahiptirler. Bunun yanı sıra devrede bazı dirençler (12100 Ω gibi) doğrudan satılmamaktadır. Bunun için başta bu değeri 12kΩ’a yuvarlayarak yeniden hesaplamalar yapılmıştır. Fakat bunun sonucunda devre satürasyona girmiştir ve ne yazık ki istenilen kazanç elde edilememiştir. Bu nedenle bu değeri yuvarlamak yerine 12kΩ’luk bir direnç ile 100Ω’luk bir direnç birbirlerine seri bağlanarak bu problem çözülmüştür ve istenilen sonuç rahatlıkla elde edilebilmiştir.

Hesaplamalar ve kullanılabilecek malzeme listesi yukarıdaki gibi kesinleştirildikten sonra aşağıdaki gibi devre tasarlanmış ve giriş-çıkış voltajları hesaplanarak kazanç elde edilmiştir. Aşağıda tasarlanmış olan devreler ve bunların satürasyona girmediklerini gösteren grafikler verilmiştir. Bunun yanı sıra düşük kesim frekansı olan 20Hz, Cin sayesinde hesaplanabildiğinden dolayı aşağıda düşük kesim frekansını gösteren grafikte yer almaktadır. Yüksek kesim frekansını ve her iki kesim frekansını gösteren grafik ise sonraki aşamalarda açıklanmıştır.

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Şekil 1.4: Multisim yardımıyla bu projede kullabılmak içintasarlanmış olan Common Emitter Devresi 1

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Şekil 1.4: Multisim yardımıyla bu projede kullabılmak içintasarlanmış olan Common Emitter Devresi 2

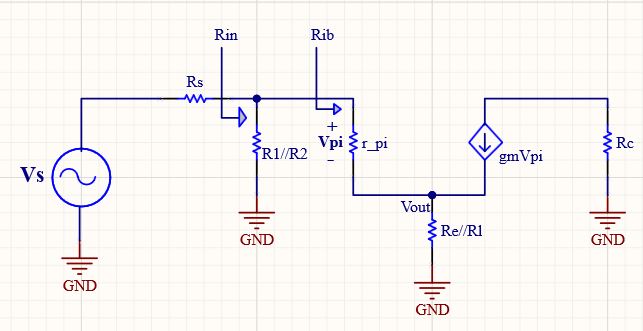
* 1. **Ortak Kolektör (Emetör Takipçisi) Tasarımı**

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Tt+6eo7+9O3H+6fzof7o+o/nTqAG7j/dP501Cdg+U/nUlNT7goANx/un86aCd7fKe3epKaPvt+FABuP90/nTWJ3L8p6+vsakprfeT6/wBDQAbj/dP50jE7T8p6etPpG+6fpQA0McD5T+dLuP8AdP50o6CloAjUn5vlPX1p24/3T+dC/wAX1p1ADS64PzD86RXXaPmHT1px6GkX7o+lABvX+8Pzpquu5vmHX19hUlNX7z/X+goAN6/3h+dRO6/aovmHRu/0qeoX/wCPqL6N/SgCTev94fnSO67D8w/On01/uGgA3r/eH50b1/vD86dRQBGjrt+8Op7+9O3r/eH50J90/U/zp1ADN6+Z94dPWl3r/eH50f8ALT8KdQAxnXj5h1Hel3r/AHh+dD9vqKdQA3ev94fnTUdRGvzDoO9SU2P/AFa/QUAG9f7w/OkDrub5h+dPrC8V6zqHh/QbrVNN0uPU/sqGWaFrkwtsAySuEbJ9jjjv2pN2Vyoxc5KK6k2reLPD+hXCQazrNlYyyLvSOedVYrnGcHtkGuB8TeOPC918Q/Bl3b69p8tvaTXZuJVnUrEGgIXce2TxXXa7dSHRNPv49D0vVry5khiEUlz8gEhHKSGIlgM7vur8oJ68HO+0WupaxPp+geFdJvZ9OIS9nuHWGCGUqD5SOImZ2APPygDjnPAzk29DtoxjFczT2a3Xp+prW/xA8I3d1Fb23iTTZZpnCRotyuWYnAA56k1vO6mNvmHQ964lvEGl2MQMnhZINYa/NlZ2CJF5k0oRX3B+ipg53Z4GD1O2tlNb1eHU7Sw1jRYYBes6pc2l4Z4k2xs2GLRowY7eBjGM85GKpS7mNSjbWK+9r8Df3r/eH50b1/vD86dRVnMMV15+YdT3pd6/3h+dCd/qadQBAXX7YPmH+rPf3FS71/vD86jP/H4P+uZ/mKmoAjd12/eHUd/enb1/vD86H+6PqP506gBu9f7w/OkR12D5h+dPpqfcFABvX+8PzpA672+Ydu9Ppo++34UAG9f7w/Oms67l+YdfX2NSU1vvJ9f6GgA3r/eH50jOu0/MOnrT6a33T9KAAOuB8w/Ojev94fnSjoKWgBiuvzfMOvrS71/vD86F/i+tOoAQ9DQv3R9KQrweW/OkVflHJ6etAD6av3n+v9BRt/2m/OmqvzNyevr7CgCSoX/4+ovo39Kk2/7TfnUTr/pUXJ6N3+lAE9Nf7ho2/wC035011+Q8n86AJKKbt/2m/Ojb/tN+dAAn3T9T/OnVGi/L1PU9/enbf9pvzoAP+Wn4U6o9v7zqenrTtv8AtN+dAA/b6inVGy9OT1Henbf9pvzoAdTY/wDVr9BRt/2m/Omov7teT0HegCSmFFkEiSKGRhhlYZBGOlLt/wBpvzpoX5m5P50AcP4M0jVbTVG0nVIJE07w5JJHpszA4uUkH7tsnqY4y0fH9496bohn8E67rlrqljfTWWqalNqVre2dpJcg+YF3RusSsyFT0JGCOh4rvNv+03500r8y8n86jltsdMq7k3zLR/1+Zw/iKLU73V/D/i6z0i6kh0ae4LWWALia3liCmVYzghxjIjPzEHBAYlR0dr4gXVLgQ6fYX5iAYzz3dnLarEMHaAJVUuSeyggAEkj5Q2vt/wBpvzprr+7bk9D3ppWZEqilFJrbYkopu3/ab86Nv+0351RiCd/qadUar15PU96dt/2m/OgCM/8AH4P+uZ/mKmqAr/pg5P8Aqz39xUu3/ab86AB/uj6j+dOqN1+Xqeo7+9O2/wC0350AOpqfcFG3/ab86ai/IOT+dAElNH32/Cjb/tN+dNC/O3J7d6AJKa33k+v9DRt/2m/OmsvzLyevr7GgCSkb7p+lJt/2m/OkZflPJ6etADh0FLTQvA5b86Nv+0350AC/xfWnVGq/e5PX1p23/ab86AFPQ0L90fSiigBaav3n+v8AQUUUAOqF/wDj6i+jf0oooAmpr/cNFFADqKKKAGp90/U/zp1FFADf+Wn4U6iigBr9vqKdRRQAU2P/AFa/QUUUAOpo+81FFADqafvLRRQA6myf6tvoaKKAHUUUUANTv9TTqKKAIT/x+D/rmf5ipqKKAGv90fUfzp1FFABTU+4KKKAHU0ffb8KKKAHU1vvJ9f6GiigB1I33T9KKKAAdBS0UUANX+L606iigD//Z)

Şekil 3.2.1: Ortak Kollektör Devresi (Temsili olarak Altium kullanılarak çizilmiştir.)

Yukarıdaki gibi temsili bulunan bir emetör takipçisi devresinin küçük sinyal modeli ise aşağıdaki gibidir:



Şekil 3.2.2: Emitör Takipçisinin Küçük Sinyal Modeli

Bu iki çizimden yola çıkarak bazı denklemler aşağıdaki gibi yazılıp devrenin teorik hesaplamaları da yapılabilir:

(2.1)

(2.2)

(2.3)

Bu denklemler göz önüne alındıklarında devrenin gerilim kazancının aşağıdaki denklem 2.4a’daki gibi olması beklenmektedir:

(2.4a)

Burada ilk ifade yaklaşık olarak 1’e eşit olduğundan kazanç aşağıdaki denklem 2.4b’deki formuna dönüşür:

(2.4b)

Teorik olarak kazanç 1 olarak bulunur. Bunun sebebi, RS değerinin RIN değerine çok küçük olmasıdır. Teorik olarak elde edilen bu kazanç ile devrede kullanılan gerçek değerlere göre elde edilen kazanç değeri birbirine çok yakındır. Bu durum aşağıda yer alan “Ölçüm Sonuçları” kısmında da yer almaktadır.

Daha sonra ilk bölüme benzer şekilde denklem 2.5‘te verildiği gibi çıkıştaki akım salınımı hesaplanır. Uygun RE değeri seçilerek, aşağıda bulunan denklem 2.6‘ya göre IEQ akımı bulunur. Seçilen VCEQ gerilimi ve IEQ akımına göre de denklem 2.7 kullanılarak DC kutuplamanın mümkün olup olmadığına bakılır ve sonrasında RC değeri tayin edilir. En son olarakta, bias stable koşuluna göre denklem 2.8 ve denklem 2.9 kullanılıp R1 ve R2 dirençleri hesaplanmış olunur.

(2.5)

(2.6)

(2.7)

(2.8)

Kirchoff’tan:

(2.9)

Teorik olarak elde edilen tüm bu denklemlerin, devrede kullanılan direnç değerlerine göre hesaplamalarının yapımı sırasında VCC değeri 15V olarak ve RE değeri’de 2k şeklinde varsayılmıştır. Ayrıca daha sonrasında bu emetör takipçisi devreleri, bağlı oldukları devrelerinin (common emitter devrelerinin) ROUT değerlerini kendi RIN değerleri ile karşıladıklarından buna göre R1 ve R2 değerleri bulunur. Yani aslında common emitter devrelerinin ROUT’u, emitter followerların RTH (= R1 // R2) değerine eşit olacak şekilde bulunur.

Daha sonra köşe frekansları 20 Hz’i ayarlayacak şekilde C1 ve C2 kapasitör değerleri hesaplanmıştır:

C1 kapasitörü için:

(2.10a)

(2.10b)

olarak bulunur.

C2 kapasitörü için:

(2.11a)

(2.11b)

olarak bulunur.

Sonrasında da yüksek eşik frekansının 1 MHz olması için de bir adet load kapasitörü bağlanmalıdır. Bunun değeri ise denklem 2.12a ve denklem 2.12b’de gösterildiği şekildedir:

(2.12a)

(2.12b)

olarak bulunur.

Emetör takipçisi devresinden tüm devre içerisinde 2 adet kullanılmıştır. Her bir common emetör devresinden sonra 1 adet emetör takipçisi koyulmuştur. Bunun sebebini açıklamak gerekirse:

* Başta iki adet common emetör devresi peş peşe koyulmul ve sonrasında 1 adet emetör takipçisi koyulmuştur. Bu durumda tüm devre doğrudan satürasyona girmiştir. 2 adet koyulduğunda ise devre satürasyondan çıkmıştır ve beklenilen sonuç alınmıştır.
* Ayrıca iki ortak emetör devresi arasında yer alan emetör takipçisi devresi bir nevi “buffer” görevi yapmaktadır. Yani daha anlaşılır bir şekilde söylemek gerekirse kendinden önce devrenin ROUT’unun ve kendinden sonraki devreninde RIN’inin yok sayılmasını ve böylece devrenin satürasyona girmesini ve yanmasını önlemiş olur. Bu şekilde teorik hesaplamaları yapmak daha da kolaylaşır ve kazanç çok daha rahat bir şekilde elde edilirken daha güvenli olan bir devre de tasarlanmış olur.

Bu hesaplamalar ve bilgiler doğrultusunda tasarlanmış olan emetör takipçisi devreleri şu şekildedirler (İki devre de aynıdır.):

A close up of a map

Description automatically generated

Şekil 3.2.3: Tasarımda Kullanılmış Olan Emitör Takipçisi Devresi

Bu devrelerden elde edilen kazançlara, frekans cevaplarına ve bunların grafiksel olarak gösterimlerine “Ölçüm Sonuçları” kısmında ulaşılabilinir.

* 1. **Güç Yükselticisi Katmanı**

Bu katmanda ise daha verimli olabilmesi ve devreden akım çekebilmek için Darlington Amplifier kullanılmıştır. Yani burada Darlington transistörli amfi kullanıldı. Devrenin şeması ve teorik hesaplamaları ise aşağıda gösterildiği gibidir:

A screenshot of text

Description automatically generated

Şekil 3.3.1: Altium Programında Temsili Olarak Çizilen Bir Darlington Yükselticisi Devresi

Burada öncelikle DC analiz yardımıyla, projede de istenildiği üzere 8 Ω direnç değeri için 5W RMS güç çıkışı verebilecek olan VOUT değeri buna bağlı olarakta geçen yük akımı hesaplanmalıdır. Buna göre:

(3.1)

Buradan;

(3.2)

olarak bulunur. Buradan da:

şeklindedir. (3.3)

Daha sonra üstteki transistörün açık ve alttakinin kapalı olma durumunu düşünerek, Kirchoff Gerilim Yasasına göre:

(3.4a)

Burada diyot voltajları, 1N4148 diyotlarının datasheetlerine bakılarak 1V oldukları görülmüş olur. Ayrıca transistör olarakta üstte TİP122 ve altta TİP127 transistörleri kullanılmıştır. Şu an için üst tarafın açık olduğu varsayılarak hesaplama yapıldığından dolayı TİP122 için VBE(on) voltaj değerlerini bilmek yeterlidir ve bu değer datasheete göre 2.5 Volt’tur. Buna göre denklem çözülürse:

(3.4b)

olarak bulunur. (3.4c)

Daha sonrasında ise bilinmeyen direnç değerlerini bulabilmek amacıyla öncelikle bilinmeyen akımlar bulunur ve daha sonra da Kirchoff kullanılarak direnç değerleri bulunur. Burada alttaki ve üstteki direnç değerlerinin hemen hemen birbirlerine eşit değerler oldukları bilindiğinden dolayı sadece 1 tanesine göre hesaplama yapıp onu bulmak yeterlidir. Burada transistörlerin ß değeri datasheetlerine göre 1000 olarak alınmıştır. Tüm bunların hesaplanması da aşağıdaki gibidir:

(3.5)

Buradan:

(3.6)

(3.7)

Daha sonrasında bir tane daha Kirchoff voltaj denklemi yazarak bilinmeyen R7 direnç değeri kolayca bulunabilir.

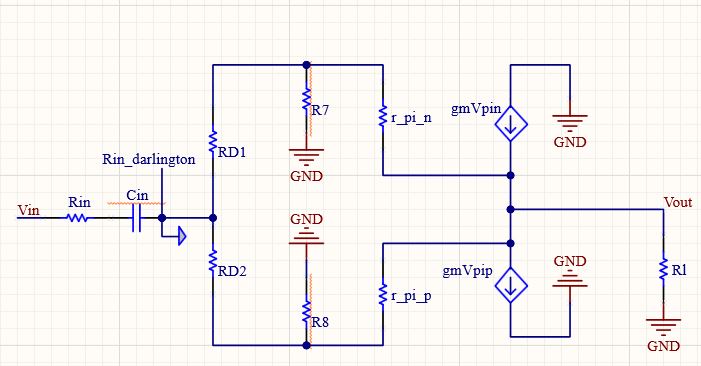
(3.8a)

Buradan:

(3.8b)

(3.8c)

Girişteki salınım voltajını hesaplayabilmek için öncelikle kazancın bulunması gerekmektedir, kazancı bulduktan sonra kazanç formülünde çıkış salınım voltajını ve kazanç değeribilindiğinden girişteki salınım voltajı da hesaplanabilir. Bunun nedenle AC analiz yapılarak aşağıdaki gibi öncelikle kazanç bulunur.



Şekil 3.3.2: Altium Programında Temsili Olarak Çizilen Bir Darlington Yükselticisi Devresinin AC Analizi

Yukarıdaki gibi devrenin küçük sinyal analizi çizildikten sonra kazanç:

(3.9)

Buradan da görüldüğü gibi amfi katının kazancı beklediğimiz gibi yaklaşık olarak 1 geldi. Zaten tüm devrede genel olarak kazancı ayarlayan katlar ortak emetör katmanlarıdır. Bu neden yükseltici katının kazanca bir etkisi olmamalıdır. Elde etmiş olduğumuz teorik veriyle de bu kanıtlanmış oldu.

Kazançtan sonra AC analize devam edilirse:

(3.10)

Bunu hesaplamadan önce küçük sinyal parametreleri bulunur:

(3.11a)

(3.11b)

Sonrasında küçük sinyal analizindeki diyot direnci için:

(3.12a)

Burada VF ve IF(diyot direnci için gerekli olan ileri akım) değerleri devrede diyot olarak da 1N4148 modelinin datasheetine bakılarak bulunurlar ve buradan da RD şu şekildedir:

(3.12b)

Şimdi kolaylıkla AC analiz çözümüne devam edilebilir:

(3.13a)

(3.13b)

(3.13c)

(3.13d)

olarak bulunur.

Küçük sinyal analizindeki alt ve üst devreler eşdeğer olduğundan:

(3.14)

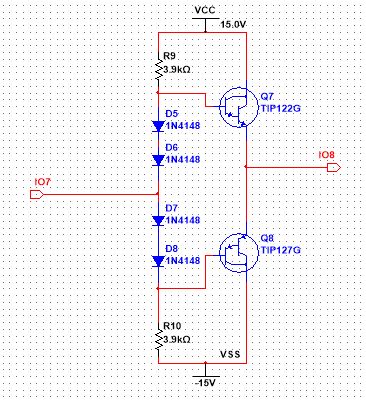
Sonuç olarak ise Denklem 3.10’dan faydalanarak:

(3.15a)

(3.15b)

olarak bulunur.

Yapılan hesaplamaların ardından Multisim üzerinde devre kurulmuştur. Elde edilen bu değerlere göre, tüm devrenin en son katı olan yükseltici katı tasarlanmıştır. Tasarlanan bu kat şu şekildedir:



Şekil 3.3.3: Tasarlanan Devrede Kullanılan Darlington Yükselticisi Devresi

Geriye bilinmeyen değerler olarak sadece kapasitör değerleri kalmıştır. Bu değerler için ise devre üzerinde ciddi hasar veya değişikliklere sebep olmaması beklenir. O yüzden sahip olmaları gereken değerlere yaklaşık değerler verilerek elde edilecek olan frekans grafiğinin daha düzgün olması ve devrenin satürasyona girmemesi sağlanmıştır. Yani bazı kapasitör değerleri simülasyon sonuçlarına göre tasarım üzerinde yeni değerler deneyerek bilgisayar aracılığıyla bulunmuşlardır.

Sonuç olarak Multisim üzerine çizili olan yükseltici katmanı devresinin elde edilen simülasyon sonucu aşağıda “Ölçüm Sonuçları” kısmında yer almıştır. Bunun yanı sıra 5 katmanın bulunduğu devre ve bu devrenin frekans cevabı ve osiloskop ile gözlemlenmiş olan kazanç simülasyonu ve sonuçları da yine “Ölçüm Sonuçları” kısmında bulunmaktadırlar.

1. **ÖLÇÜM SONUÇLARI**

Tasarım aşaması yapılırken her bir katman bitirildiğinde sahip olmaları gereken kazanç miktarları ve frekans cevapları osiloskop ve simülasyon programı yardımıyla ölçülmüşlerdir. Bazı durumlarda teorik olarak hesaplanan değerler beklenen kazanç veya frekans aralıklarını karşılamamıştırlar. Bu durumda simülasyon programı üzerindeki devre değerleri elle rastgele değiştirilerek maksimum hata payı en aza indirilmeye çalışılmıştır. Elle elde edilen bu değerler daha sonra gerçek değerler olup olmadıkları araştırılarak gerçek olanlar BOM Listesi’ne eklenmiş, gerçek olmayanlar da kendisine en yakın olan gerçek değere dönüştürülerek simülasyon tekrarlanmıştır. En son değişiklikler yapıldıktan sonra projenin amacına uygun olarak tasarım tamamlanmıştır.

Aşağıda her bir katmanın ve daha sonrasında tüm devrenin ölçüm sonuçları ve bunlara bağlı yorumlar bulunmaktadır. Osiloskopla yapılan simülasyonda Channel B devrenin çıkış voltajını, Channel A ise devrenin giriş voltajını vermektedir.

* 1. **Common Emitter 1 (1. Katman):**

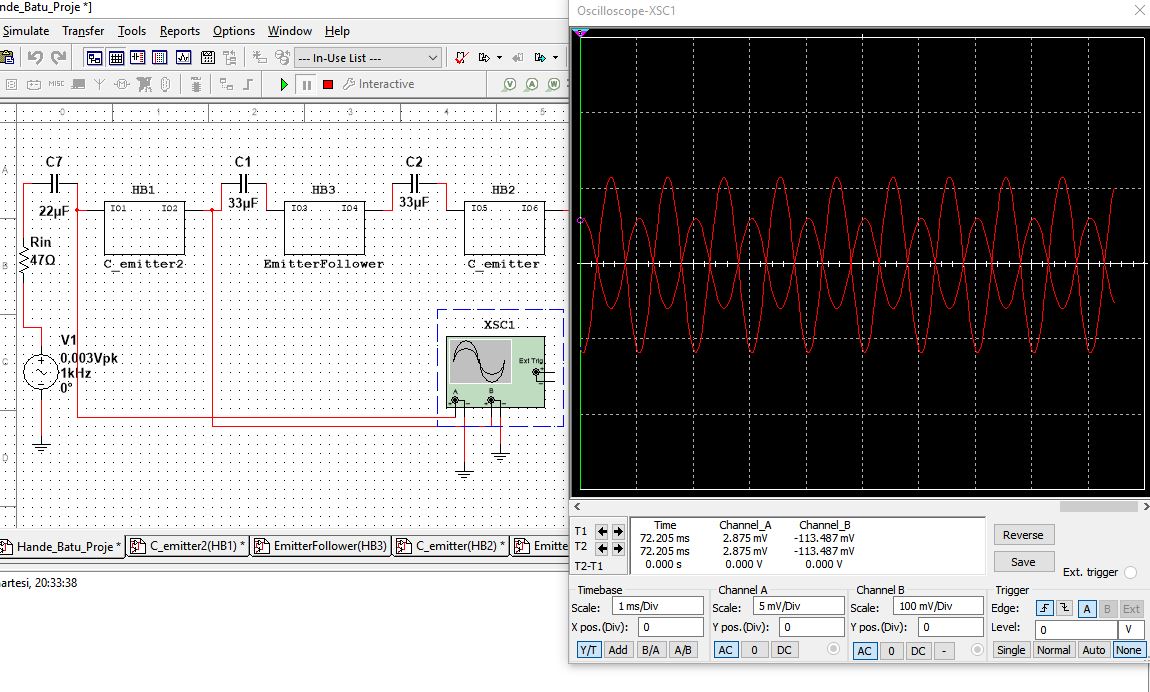
Bu katman kazancın elde edildiği katmanlardan bir tanesidir. Aşağıda bu tasarlanan devre de kullanılmış olan ilk katmanın görseli yer almaktadır.

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NAAAkpIAAgAAAAM5NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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MAxUE9SAceh6VJUdzK8FrLLFBJcvGhZYYioeQgZCruIXJ6DJA9SKkoAjtmna1ia8jjiuCgMscUhdFbHIViFLAHoSBn0HSiBp2jJuo4433uAschcFdx2nJA5K4JGOCSMnGSW0rz2sUssEls8iBmhlKl4yRkq20lcjocEj0JogleaMtJBJAQ7qEkKkkBiA3ykjDABh3wRkA5AAMjULvxVFfyJpWjaPc2gx5ctzq8sMjcDOUW2cDnI+8cjnjoKjaj41QZfQPDyjOMnX5h/wC2dbk2oRWkN3PfqbS3tm5nmZQjrtU7xgkgZJX5sHKnjGCfJviwsesXHhjXLLUbufT01nTordIpU+ySOZ5A7YB3M42qPmG0AjbklsAHUXY8YnxZYavLpXhuJrWyubUQNr0w3+c8Dbs/ZOMeRjGOd3UY51V1Lxo+7ZoHh1tpw2NfmOD6f8edcT8S9PvtE8Ran48MGk6lbafpcUYtL62WQKqTbmTcXBjd/MJVgjj5MHHAbB8Z69c+B/EPjPRtPtp2k8X2kF1piRhV8q4m/wBHlJLEZO7YSFyeQcYyQAes2d/4umuITcaJoSWrOBJLBrcsjKmeSqm1AYgZ43DPqOtbty062srWccctwEJijlkKIzY4DMAxUE9SAceh6Vm6LpaeGPCumaTZQSXEdjDDagRbQSBtQudxAwOWPOcA4BOAdK5leC1lligkuXjQssMRUPIQMhV3ELk9BkgepFAElR2zTtaxNeRxxXBQGWOKQuitjkKxClgD0JAz6DpUlR20rz2sUssEls8iBmhlKl4yRkq20lcjocEj0JoAIGnaMm6jjjfe4CxyFwV3HackDkrgkY4JIycZJE05kmE8caIrgQskhYuu0csCBtO7cMAngA55wCCV5oy0kEkBDuoSQqSQGIDfKSMMAGHfBGQDkAileSSZXgkiEbhVdyuJRtB3Lgk4ySvzYOVPGMEgArT/AGqRWjjFuEUpIJCXZstuBXGAAAuDk5yeBgEjNP8Aao1WOM25Ri8hkIdWyu0BcYIILZORjA4OSQLK5upIjBIqKisJiV2OSWBUc7sjaCcgD5hgnnA0ri6jiEEjIyMxmBXYhBUBTzuydxIwCPlOSOMgBK04khEEcbozkTM8hUou08qADuO7aMEjgk54wSdp1jBtY45H3oCskhQBdw3HIB5C5IGOSAMjOQSyvHJCqQSSiRyrOhXEQ2k7myQcZAX5cnLDjGSCeV4Yw0cEk5LopSMqCAWALfMQMKCWPfAOATgEALlp1tZWs445bgITFHLIURmxwGYBioJ6kA49D0qSo7mV4LWWWKCS5eNCywxFQ8hAyFXcQuT0GSB6kVJQBHbNO1rE15HHFcFAZY4pC6K2OQrEKWAPQkDPoOlEDTtGTdRxxvvcBY5C4K7jtOSByVwSMcEkZOMktpXntYpZYJLZ5EDNDKVLxkjJVtpK5HQ4JHoTRBK80ZaSCSAh3UJIVJIDEBvlJGGADDvgjIByAAETTmSYTxxoiuBCySFi67RywIG07twwCeADnnAFaf7VIrRxi3CKUkEhLs2W3ArjAAAXByc5PAwCSKV5JJleCSIRuFV3K4lG0HcuCTjJK/Ng5U8YwSLK5upIjBIqKisJiV2OSWBUc7sjaCcgD5hgnnAAM0/2qNVjjNuUYvIZCHVsrtAXGCCC2TkYwODkkErTiSEQRxujORMzyFSi7TyoAO47towSOCTnjBGlcXUcQgkZGRmMwK7EIKgKed2TuJGAR8pyRxklleOSFUgklEjlWdCuIhtJ3Nkg4yAvy5OWHGMkABO06xg2sccj70BWSQoAu4bjkA8hckDHJAGRnILlp1tZWs445bgITFHLIURmxwGYBioJ6kA49D0onleGMNHBJOS6KUjKggFgC3zEDCglj3wDgE4BLmV4LWWWKCS5eNCywxFQ8hAyFXcQuT0GSB6kUASVHbNO1rE15HHFcFAZY4pC6K2OQrEKWAPQkDPoOlSVHbSvPaxSywSWzyIGaGUqXjJGSrbSVyOhwSPQmgAgadoybqOON97gLHIXBXcdpyQOSuCRjgkjJxkkTTmSYTxxoiuBCySFi67RywIG07twwCeADnnAIJXmjLSQSQEO6hJCpJAYgN8pIwwAYd8EZAOQCKV5JJleCSIRuFV3K4lG0HcuCTjJK/Ng5U8YwSACtP8AapFaOMW4RSkgkJdmy24FcYAAC4OTnJ4GASM0/wBqjVY4zblGLyGQh1bK7QFxgggtk5GMDg5JAsrm6kiMEioqKwmJXY5JYFRzuyNoJyAPmGCecDSuLqOIQSMjIzGYFdiEFQFPO7J3EjAI+U5I4yAErTiSEQRxujORMzyFSi7TyoAO47towSOCTnjBJ2nWMG1jjkfegKySFAF3DccgHkLkgY5IAyM5BLK8ckKpBJKJHKs6FcRDaTubJBxkBflycsOMZIJ5XhjDRwSTkuilIyoIBYAt8xAwoJY98A4BOAQAuWnW1lazjjluAhMUcshRGbHAZgGKgnqQDj0PSpKjuZXgtZZYoJLl40LLDEVDyEDIVdxC5PQZIHqRUlAFa11C1vbm9gtpd8tjMILhdpGxzGkgHI5+SRDkZHOOoNEeoWsuqz6akubu3hjnlj2n5UkZ1Q5xg5MT8A5G3nqMlFABJqFrFqsGmvLi7uIZJ4o9p+ZI2RXOcYGDKnBOTu46HBdaha2VzZQXMuyW+mMFuu0ne4jeQjgcfJG5ycDjHUiiigAv9QtdMtknvpfKieaKBW2lsvLIsaDgd3dRnoM5OBRqWoWukaVd6lqEvk2lnC888m0tsRFLMcAEnAB4AzRRQBZqtpuoWur6Vaalp8vnWl5Ck8Em0rvR1DKcEAjII4IzRRQAWGoWup2zz2MvmxJNLAzbSuHikaNxyOzowz0OMjIotdQtb25vYLaXfLYzCC4XaRscxpIByOfkkQ5GRzjqDRRQAR6hay6rPpqS5u7eGOeWPaflSRnVDnGDkxPwDkbeeoySahaxarBpry4u7iGSeKPafmSNkVznGBgypwTk7uOhwUUAF1qFrZXNlBcy7Jb6YwW67Sd7iN5COBx8kbnJwOMdSKL/AFC10y2Se+l8qJ5ooFbaWy8sixoOB3d1Gegzk4FFFABqWoWukaVd6lqEvk2lnC888m0tsRFLMcAEnAB4AzVmiigCtpuoWur6Vaalp8vnWl5Ck8Em0rvR1DKcEAjII4IzRYaha6nbPPYy+bEk0sDNtK4eKRo3HI7OjDPQ4yMiiigAtdQtb25vYLaXfLYzCC4XaRscxpIByOfkkQ5GRzjqDVHUrXRPEF//AGRqUS3VxpzW+oiFgw8olpBFJkYBO6KTjJ6cjkUUUAUtS8PeFb7xXAdR0+CXVrmE3Cgq2J0gaMbnA+V9jSx43ZIzx0OJPEGi+Gb/AF7QbvX7KGfUYboppcjqxKTBGmOMcDCwlstx8vqRkooA17/ULXTLZJ76XyonmigVtpbLyyLGg4Hd3UZ6DOTgUalqFrpGlXepahL5NpZwvPPJtLbERSzHABJwAeAM0UUAWarabqFrq+lWmpafL51peQpPBJtK70dQynBAIyCOCM0UUAFhqFrqds89jL5sSTSwM20rh4pGjccjs6MM9DjIyKLXULW9ub2C2l3y2MwguF2kbHMaSAcjn5JEORkc46g0UUAEeoWsuqz6akubu3hjnlj2n5UkZ1Q5xg5MT8A5G3nqMkmoWsWqwaa8uLu4hknij2n5kjZFc5xgYMqcE5O7jocFFABdaha2VzZQXMuyW+mMFuu0ne4jeQjgcfJG5ycDjHUii/1C10y2Se+l8qJ5ooFbaWy8sixoOB3d1Gegzk4FFFABqWoWukaVd6lqEvk2lnC888m0tsRFLMcAEnAB4AzVmiigCtpuoWur6Vaalp8vnWl5Ck8Em0rvR1DKcEAjII4IzRYaha6nbPPYy+bEk0sDNtK4eKRo3HI7OjDPQ4yMiiigAtdQtb25vYLaXfLYzCC4XaRscxpIByOfkkQ5GRzjqDRHqFrLqs+mpLm7t4Y55Y9p+VJGdUOcYOTE/AORt56jJRQASahaxarBpry4u7iGSeKPafmSNkVznGBgypwTk7uOhwXWoWtlc2UFzLslvpjBbrtJ3uI3kI4HHyRucnA4x1IoooAL/ULXTLZJ76XyonmigVtpbLyyLGg4Hd3UZ6DOTgUalqFrpGlXepahL5NpZwvPPJtLbERSzHABJwAeAM0UUAWarabqFrq+lWmpafL51peQpPBJtK70dQynBAIyCOCM0UUAFhqFrqds89jL5sSTSwM20rh4pGjccjs6MM9DjIyKLXULW9ub2C2l3y2MwguF2kbHMaSAcjn5JEORkc46g0UUAEeoWsuqz6akubu3hjnlj2n5UkZ1Q5xg5MT8A5G3nqMkmoWsWqwaa8uLu4hknij2n5kjZFc5xgYMqcE5O7jocFFABdaha2VzZQXMuyW+mMFuu0ne4jeQjgcfJG5ycDjHUii/1C10y2Se+l8qJ5ooFbaWy8sixoOB3d1Gegzk4FFFABqWoWukaVd6lqEvk2lnC888m0tsRFLMcAEnAB4AzVmiigD/2Q==)

Şekil 4.1.1: Tasarlanan Devrede Kullanılan İlk Katman Olan Ortak Emetörlü Devre

Bu devrenin kazancını bulabilmek için osiloskop kullanılmıştır. Bunu gösteren simülasyon aşağıdaki şekildedir:



Şekil 4.1.2: İlk Katman Olan Ortak Emetörlü Devrenin Kazanç Simülasyonu

Osiloskop sonuçlarına bağlı olarak bu katmanın kazancı beklenildiği gibi şu şekildedir:

* 1. **Emitter Follower 1 (2. Katman):**

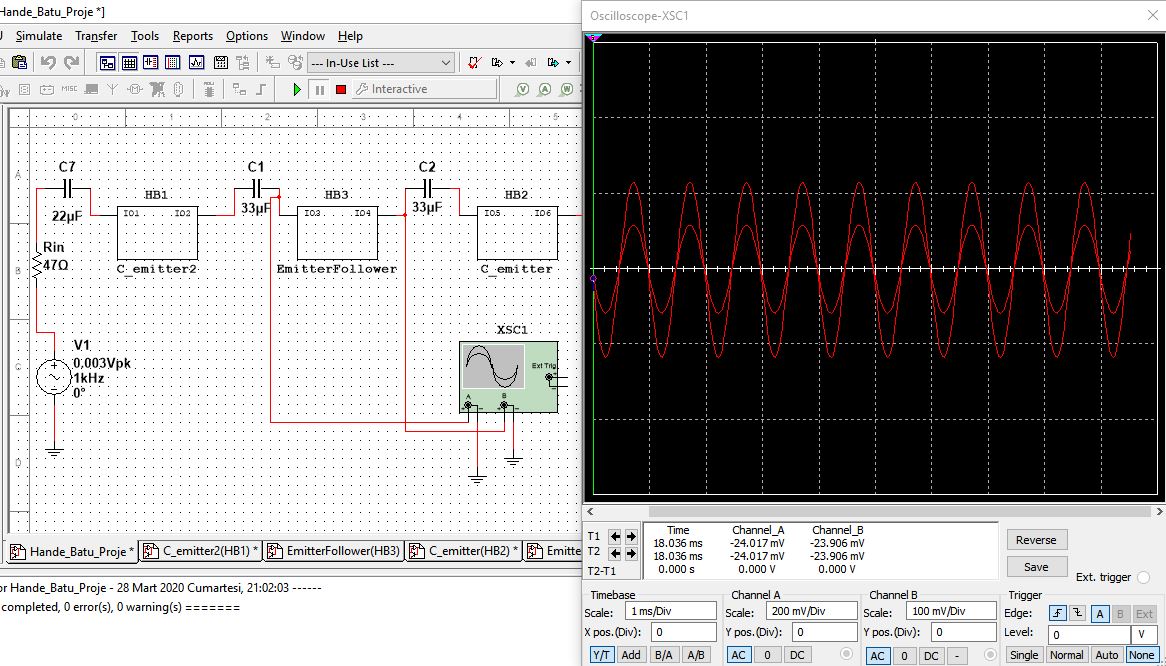
İkinci katmanda kullanılmış olan emetör takipçisi devresi, iki ortak emetör devresin arasında “buffer” görevi üstlenir ve devrenin kazancına hiçbir etkisinin olmaması yani kazancının 1 olması beklenir. Bunu sağlayan emetör takipçisi devresi ise bu tasarımda şu şekildedir:

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NQAAkpIAAgAAAAM3NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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kcZkqNrhFuo7ciTfIjOCI2KAKVBy+NoPzDAJyeSAdpxJQBHFcwTyTRwTRyPbuI5lRwTG20NtYDodrKcHswPehbmBrqS1WaM3EaLI8Qcb1ViwViOoBKMAe+0+hqSigCNrmBbqO1aaMXEiNIkRcb2VSoZgOpALqCe24eooluYIJIY55o43uHMcKu4BkbaW2qD1O1WOB2UntUlFAEc9zBaxiS6mjhRnSMNI4UFnYKq5PcswAHckDvRc3MFnay3V5NHBbwoZJZZXCpGoGSzE8AADJJqSigAqO2uYLy1iurOaOe3mQSRSxOGSRSMhlI4IIOQRUlFAEcFzBdRmS1mjmRXeMtG4YBkYqy5HcMpBHYgjtRFcwTyTRwTRyPbuI5lRwTG20NtYDodrKcHswPepKKAI1uYGupLVZozcRosjxBxvVWLBWI6gEowB77T6GhrmBbqO1aaMXEiNIkRcb2VSoZgOpALqCe24eoqSigCOW5ggkhjnmjje4cxwq7gGRtpbaoPU7VY4HZSe1E9zBaxiS6mjhRnSMNI4UFnYKq5PcswAHckDvUlFAEdzcwWdrLdXk0cFvChklllcKkagZLMTwAAMkmpKKKAI7a5gvLWK6s5o57eZBJFLE4ZJFIyGUjggg5BFEFzBdRmS1mjmRXeMtG4YBkYqy5HcMpBHYgjtUlFAEcVzBPJNHBNHI9u4jmVHBMbbQ21gOh2spwezA96FuYGupLVZozcRosjxBxvVWLBWI6gEowB77T6GpKKAI2uYFuo7VpoxcSI0iRFxvZVKhmA6kAuoJ7bh6iiW5ggkhjnmjje4cxwq7gGRtpbaoPU7VY4HZSe1SUUARz3MFrGJLqaOFGdIw0jhQWdgqrk9yzAAdyQO9FzcwWdrLdXk0cFvChklllcKkagZLMTwAAMkmpKKACo7a5gvLWK6s5o57eZBJFLE4ZJFIyGUjggg5BFSUUARwXMF1GZLWaOZFd4y0bhgGRirLkdwykEdiCO1EVzBPJNHBNHI9u4jmVHBMbbQ21gOh2spwezA96kooAjW5ga6ktVmjNxGiyPEHG9VYsFYjqASjAHvtPoaGuYFuo7VpoxcSI0iRFxvZVKhmA6kAuoJ7bh6ipKKAI5bmCCSGOeaON7hzHCruAZG2ltqg9TtVjgdlJ7UT3MFrGJLqaOFGdIw0jhQWdgqrk9yzAAdyQO9SUUAR3NzBZ2st1eTRwW8KGSWWVwqRqBksxPAAAySakoooAjtrmC8tYrqzmjnt5kEkUsThkkUjIZSOCCDkEUQXMF1GZLWaOZFd4y0bhgGRirLkdwykEdiCO1SUUARxXME8k0cE0cj27iOZUcExttDbWA6HaynB7MD3oW5ga6ktVmjNxGiyPEHG9VYsFYjqASjAHvtPoakooAja5gW6jtWmjFxIjSJEXG9lUqGYDqQC6gntuHqKJbmCCSGOeaON7hzHCruAZG2ltqg9TtVjgdlJ7VJRQBHPcwWsYkupo4UZ0jDSOFBZ2CquT3LMAB3JA70XNzBZ2st1eTRwW8KGSWWVwqRqBksxPAAAySakooAKjtrmC8tYrqzmjnt5kEkUsThkkUjIZSOCCDkEVJRQBHBcwXUZktZo5kV3jLRuGAZGKsuR3DKQR2II7URXME8k0cE0cj27iOZUcExttDbWA6HaynB7MD3qSigCNbmBrqS1WaM3EaLI8Qcb1ViwViOoBKMAe+0+hoa5gW6jtWmjFxIjSJEXG9lUqGYDqQC6gntuHqKkooAjluYIJIY55o43uHMcKu4BkbaW2qD1O1WOB2UntRPcwWsYkupo4UZ0jDSOFBZ2CquT3LMAB3JA71JRQBHc3MFnay3V5NHBbwoZJZZXCpGoGSzE8AADJJqSiigCO2uYLy1iurOaOe3mQSRSxOGSRSMhlI4IIOQRRBcwXUZktZo5kV3jLRuGAZGKsuR3DKQR2II7VJRQBHFcwTyTRwTRyPbuI5lRwTG20NtYDodrKcHswPehbmBrqS1WaM3EaLI8Qcb1ViwViOoBKMAe+0+hqSigCNrmBbqO1aaMXEiNIkRcb2VSoZgOpALqCe24eoqSiigCOK2ggkmkghjje4cSTMiAGRtoXcxHU7VUZPZQO1C20C3Ul0sMYuJEWN5Qg3sqliqk9SAXYgdtx9TRRQANbQNdR3TQxm4jRo0lKDeqsVLKD1AJRSR32j0FEttBPJDJPDHI9u5khZ0BMbbSu5Seh2swyOzEd6KKACe2guoxHdQxzIrpIFkQMAyMGVsHuGUEHsQD2oubaC8tZbW8hjnt5kMcsUqBkkUjBVgeCCDgg0UUASVHbW0FnaxWtnDHBbwoI4ookCpGoGAqgcAADAAoooAILaC1jMdrDHCjO8hWNAoLOxZmwO5ZiSe5JPeiK2ggkmkghjje4cSTMiAGRtoXcxHU7VUZPZQO1FFAAttAt1JdLDGLiRFjeUIN7KpYqpPUgF2IHbcfU0NbQNdR3TQxm4jRo0lKDeqsVLKD1AJRSR32j0FFFABLbQTyQyTwxyPbuZIWdATG20ruUnodrMMjsxHeie2guoxHdQxzIrpIFkQMAyMGVsHuGUEHsQD2oooALm2gvLWW1vIY57eZDHLFKgZJFIwVYHggg4INSUUUAR21tBZ2sVrZwxwW8KCOKKJAqRqBgKoHAAAwAKILaC1jMdrDHCjO8hWNAoLOxZmwO5ZiSe5JPeiigAitoIJJpIIY43uHEkzIgBkbaF3MR1O1VGT2UDtQttAt1JdLDGLiRFjeUIN7KpYqpPUgF2IHbcfU0UUADW0DXUd00MZuI0aNJSg3qrFSyg9QCUUkd9o9BRLbQTyQyTwxyPbuZIWdATG20ruUnodrMMjsxHeiigAntoLqMR3UMcyK6SBZEDAMjBlbB7hlBB7EA9qLm2gvLWW1vIY57eZDHLFKgZJFIwVYHggg4INFFAElR21tBZ2sVrZwxwW8KCOKKJAqRqBgKoHAAAwAKKKACC2gtYzHawxwozvIVjQKCzsWZsDuWYknuST3oitoIJJpIIY43uHEkzIgBkbaF3MR1O1VGT2UDtRRQALbQLdSXSwxi4kRY3lCDeyqWKqT1IBdiB23H1NDW0DXUd00MZuI0aNJSg3qrFSyg9QCUUkd9o9BRRQAS20E8kMk8Mcj27mSFnQExttK7lJ6HazDI7MR3ontoLqMR3UMcyK6SBZEDAMjBlbB7hlBB7EA9qKKAC5toLy1ltbyGOe3mQxyxSoGSRSMFWB4IIOCDUlFFAEdtbQWdrFa2cMcFvCgjiiiQKkagYCqBwAAMACiC2gtYzHawxwozvIVjQKCzsWZsDuWYknuST3oooAIraCCSaSCGON7hxJMyIAZG2hdzEdTtVRk9lA7ULbQLdSXSwxi4kRY3lCDeyqWKqT1IBdiB23H1NFFAA1tA11HdNDGbiNGjSUoN6qxUsoPUAlFJHfaPQUS20E8kMk8Mcj27mSFnQExttK7lJ6HazDI7MR3oooAJ7aC6jEd1DHMiukgWRAwDIwZWwe4ZQQexAPai5toLy1ltbyGOe3mQxyxSoGSRSMFWB4IIOCDRRQBJUdtbQWdrFa2cMcFvCgjiiiQKkagYCqBwAAMACiigAgtoLWMx2sMcKM7yFY0Cgs7FmbA7lmJJ7kk96IraCCSaSCGON7hxJMyIAZG2hdzEdTtVRk9lA7UUUAC20C3Ul0sMYuJEWN5Qg3sqliqk9SAXYgdtx9TQ1tA11HdNDGbiNGjSUoN6qxUsoPUAlFJHfaPQUUUAEttBPJDJPDHI9u5khZ0BMbbSu5Seh2swyOzEd6J7aC6jEd1DHMiukgWRAwDIwZWwe4ZQQexAPaiigAubaC8tZbW8hjnt5kMcsUqBkkUjBVgeCCDgg1JRRQBHbW0FnaxWtnDHBbwoI4ookCpGoGAqgcAADAAogtoLWMx2sMcKM7yFY0Cgs7FmbA7lmJJ7kk96KKACK2ggkmkghjje4cSTMiAGRtoXcxHU7VUZPZQO1C20C3Ul0sMYuJEWN5Qg3sqliqk9SAXYgdtx9TRRQANbQNdR3TQxm4jRo0lKDeqsVLKD1AJRSR32j0FSUUUAf//Z)

Şekil 4.2.1: Tasarlanan Devrede Kullanılan İkinci Katman Olan Emetör Takipçisi Devresi

Bu durumda kazancını gösteren simülasyon sonucu aşağıdaki gibi olmalıdır:



Şekil 4.2.1: İkinci Katman Olan Emetör Takipçisi Devresinin Kazanç Simülasyonu

Bu durumda simülasyon verilerine göre kazanç hesaplanacak olursa:

Beklenildiği gibi kazanç değeri 0.99 yani yaklaşık olarak 1 çıkmıştır ve tüm devrenin kazancını etkilememiştir. Böylece bu katman rahatlıkla buffer görevini yapmaya devam edebilir.

* 1. **Common Emitter 2 (3. Katman):**

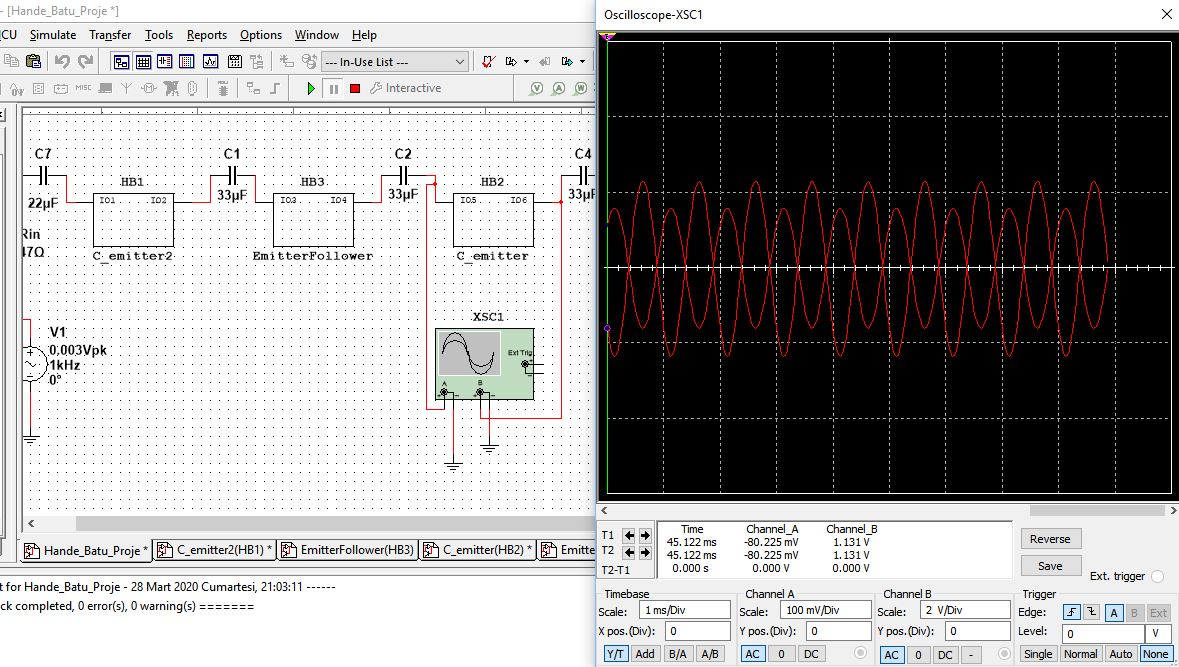
Bu katman da yine 1. katman gibi kazancın elde edildiği diğer bir katmandır. Fakat bu katmanın kazancı birinci ortak emetör katmanına göre daha azdır. Aslında başta bu iki katmanın kazancı eşit olarak alınarak hesaplama yapılmıştır. Fakat bu durumda ikinci ortak emetör katmanına çekilen akım miktarı çok arttığından ve devre buna bağlı olarak voltaj üretemediğinden bu katman satürasyona girmiştir. Bunun çözüm olarak da ilk kazanç katmanının ikinci kazanç katmanına göre daha yüksek değere sahip olması sağlanarak devre satürasyondan çıkarılmıştır ve beklenen kazanç elde edilmiştir. Aşağıda bu tasarlanan devre de kullanılmış olan ilk katmanın görseli Şekil 4.3.1’de yer almaktadır:

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMzNwAAkpIAAgAAAAMzNwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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BkZyJKjnleGMNHBJOS6KUjKggFgC3zEDCglj3wDgE4BkoAja4RbqO3Ik3yIzgiNigClQcvjaD8wwCcnkgHacEtwkMkKOJCZnKKUjZgDtLfMQCFGFPLYGcDOSAZKKAI57hLaMPIJCC6IBHGznLMFHCgnGSMnoBkkgAmi5uEtbWW4lEjJChdhFG0jkAZO1FBZj6AAk9AKkooAKjtrhLq1iuIhIqTIHUSxtG4BGRuRgGU+oIBHQipKKAI4LhLmMvGJAA7oRJGyHKsVPDAHGQcHoRggkEGiK4SaSZEEgMLhGLxsoJ2hvlJADDDDlcjORnIIElFAEa3CNdSW4Em+NFckxsEIYsBh8bSflOQDkcEgbhka4RbqO3Ik3yIzgiNigClQcvjaD8wwCcnkgHacSUUARy3CQyQo4kJmcopSNmAO0t8xAIUYU8tgZwM5IBJ7hLaMPIJCC6IBHGznLMFHCgnGSMnoBkkgAmpKKAI7m4S1tZbiUSMkKF2EUbSOQBk7UUFmPoACT0AqSiigCO2uEurWK4iEipMgdRLG0bgEZG5GAZT6ggEdCKILhLmMvGJAA7oRJGyHKsVPDAHGQcHoRggkEGpKKAI4rhJpJkQSAwuEYvGygnaG+UkAMMMOVyM5GcggC3CNdSW4Em+NFckxsEIYsBh8bSflOQDkcEgbhmSigCNrhFuo7ciTfIjOCI2KAKVBy+NoPzDAJyeSAdpwS3CQyQo4kJmcopSNmAO0t8xAIUYU8tgZwM5IBkooAjnuEtow8gkILogEcbOcswUcKCcZIyegGSSACaLm4S1tZbiUSMkKF2EUbSOQBk7UUFmPoACT0AqSigAqO2uEurWK4iEipMgdRLG0bgEZG5GAZT6ggEdCKkooAjguEuYy8YkADuhEkbIcqxU8MAcZBwehGCCQQaIrhJpJkQSAwuEYvGygnaG+UkAMMMOVyM5GcggSUUARrcI11JbgSb40VyTGwQhiwGHxtJ+U5AORwSBuGRrhFuo7ciTfIjOCI2KAKVBy+NoPzDAJyeSAdpxJRQBHLcJDJCjiQmZyilI2YA7S3zEAhRhTy2BnAzkgEnuEtow8gkILogEcbOcswUcKCcZIyegGSSACakooAjubhLW1luJRIyQoXYRRtI5AGTtRQWY+gAJPQCpKKKAI7a4S6tYriISKkyB1EsbRuARkbkYBlPqCAR0IoguEuYy8YkADuhEkbIcqxU8MAcZBwehGCCQQakooAjiuEmkmRBIDC4Ri8bKCdob5SQAwww5XIzkZyCALcI11JbgSb40VyTGwQhiwGHxtJ+U5AORwSBuGZKKAI2uEW6jtyJN8iM4IjYoApUHL42g/MMAnJ5IB2nBLcJDJCjiQmZyilI2YA7S3zEAhRhTy2BnAzkgGSigCOe4S2jDyCQguiARxs5yzBRwoJxkjJ6AZJIAJqSiigD/2Q==)

Şekil 4.3.1: Tasarlanan Devrede Kullanılan Üçüncü Katman Olan İkinci Ortak Emetörlü Devre

Devrenin giriş ucuna (IO5) bir voltaj kaynağı bağlanıp osiloskop yardımıyla simülasyonu gözlemlenirse elde edilen grafik ve voltaj kazancı aşağıdaki şekilde çıkmaktadır:



Şekil 4.3.2: Üçüncü Katman Olan İkinci Ortak Emetörlü Devrenin Kazanç Simülasyonu

Buna göre kazanç:

* 1. **Emitter Follower 2 (4. Katman):**

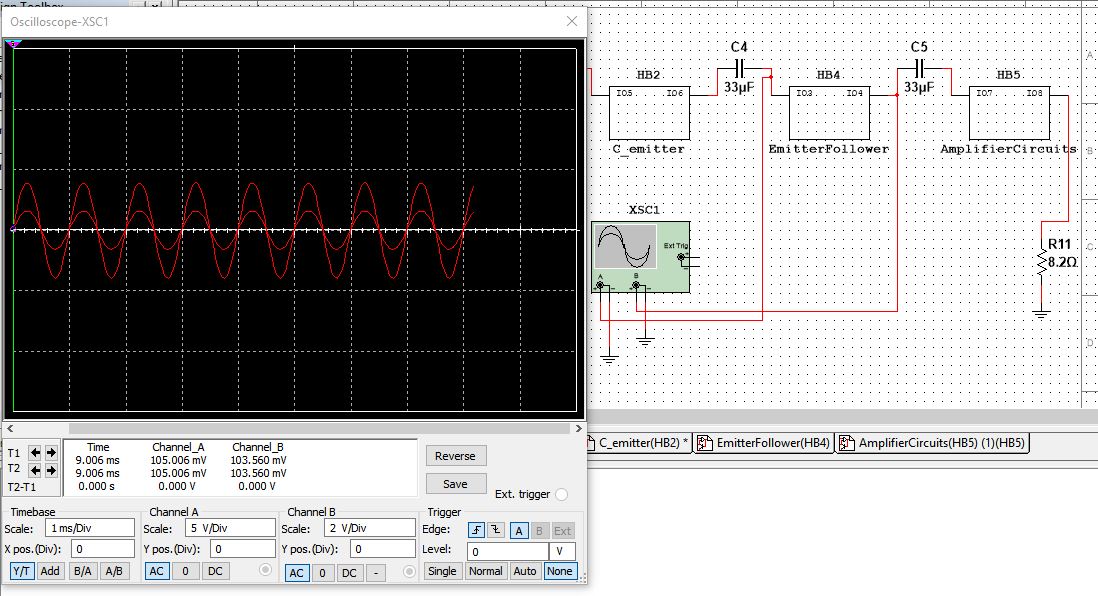
İkinci emetör katmanı olan bu katman yine buffer görevi görerek yüksek değerler direnç ve akım girdilerinin bir sonraki katmana taşınmasını engeller. Yani bu katmanda 2. katman gibi RIN ve ROUT’ların devre çözümünde ortadan kalkmasına yardımcı olmuş olur. Aşağıda bu tasarım için kullanılan 4. katman (yani 2. katmanın aynısından bir tane daha) gösterilmektedir:

![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5OQAAkpIAAgAAAAM5OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 4.4.1: Tasarlanan Devrede Kullanılan Dördüncü Katman Olan İkinci Emetör Takipçisi Devresi

Bu devrenin osiloskop yardımıyla simülasyonu yapılarak katman kazancına bakılacak olunursa:



Şekil 4.4.2: Dördüncü Katman Olan İkinci Emetör Takipçisi Devresinin Kazanç Simülasyonu

Buna göre kazanç:

Buradan ikinci emetör takipçisi devresinin %98 kazanç ile çalışmış olduğu gözlemlenmiş olunur. Bu değer aslında iyi bir değerdir. Çünkü en başta da belirtildiği gibi devre tasarımı yapılırken istenen 500 kazançtan biraz daha fazla kazanca göre yapıldı. Bunun sebeplerinde biri PCB üzerine gerçek hayatta devre elemanları monte edildiğinde PCB kazancının düşmesi riskini ortadan kaldırmak, bir diğeri de bazı katmanlarda düşen verimi avantaja dönüştürerek 500’den fazla olarak elde edilmiş olan kazancı 500’e maksimum ölçüde yakınsatabilmektir. İşte bu nedenle bu katman bu görevi yerine getirir ve kazanç hesabında iki common emetör devresinin çarpımı ile çarpılarak sonucu (tıpkı 2. ve 5. katmanında yapmış oldukları gibi) 500’e maksimum düzeyde yaklaştırır.

Emetör takipçisi kazancının 0.98 yani yaklaşık 1 olması beklenilen bir durumdur çünkü bu devrenin görevi “buffer” özelliği göstermek ve genel kazancı hiçbir şekilde değiştirmemektedir. Elde edilmiş olan bu kazançta zaten bu durumu doğrular niteliktedir.

* 1. **Power Amplifier (5. Katman)**

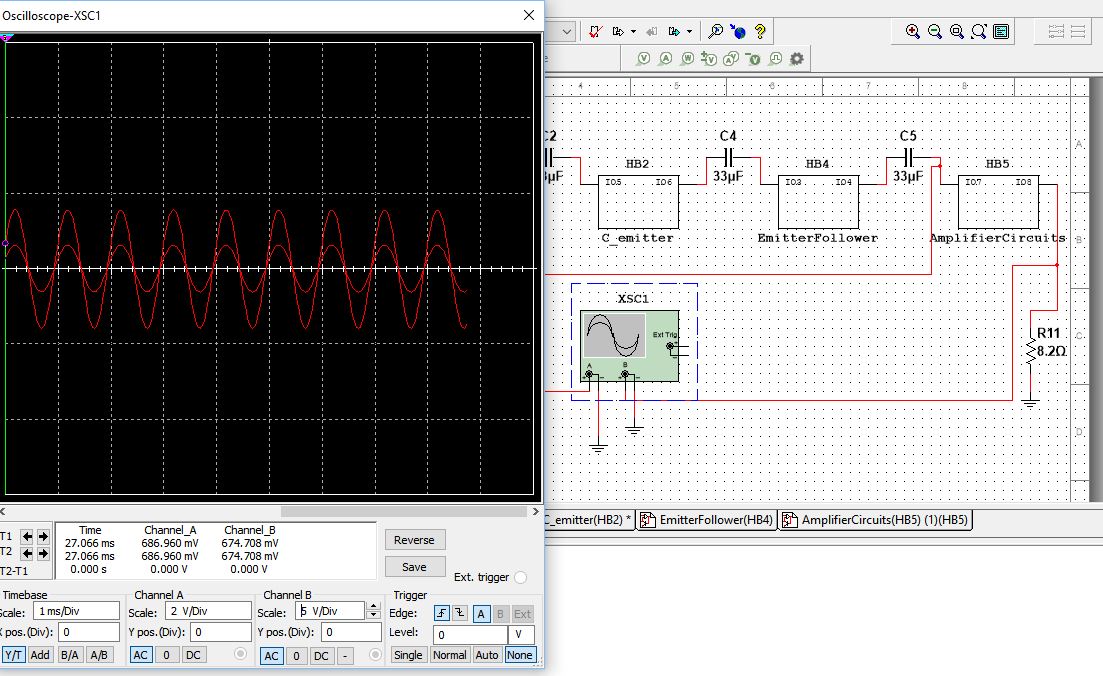
Tasarlanmış olan devrenin en son katmanı olan yükseltici devresinde asıl amaç gelen voltaja uygun olarak akım çekilmesini ve böylece 5 watt güç çekebilmektir. Buna uygun olarak aşağıdaki görseldeki gibi bir yükseltici katı tasarlanmıştır:

**![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyMAAAkpIAAgAAAAMyMAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 4.5.1: Tasarlanan Devrede Kullanılan Beşinci ve Sonuncu Katman Olan Güç Yükselticisi Devresi

Tasarlanmış olan bu yükseltici katmanının simülasyonu ve simülasyonda elde edilmiş olan değerlerine göre bulunan kazancının yine emetör takipçisi gibi 1 olması beklenir. Bu durum şu şekilde gösterilebilir:



Şekil 4.5.2: Beşinci Katman Olan Güç Yükselticisi Devresinin Kazanç Simülasyonu

Buna göre kazanç:

* 1. **Tüm Devre (5 Katmanlı Devre)**

Tüm katmanlar ayrı ayrı simüle edildikten, bu katmanların birleştirilmesiyle elde edilmiş olan devrenin genel devre de yine Multisim programı kullanılarak simüle edilmiş ve beklenen kazanç değeri gözlemlenmeye çalışılmıştır. Tüm devrenin simülasyonun yapıldığı gösterim aşağıdaki Şekil 4.6.1 ve Şekil 4.6.2’deki gibidir:

**![A close up of a map

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0MgAAkpIAAgAAAAM0MgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 4.6.1: Proje Boyunca Tasarlanmış Olan 5 Katlı Devre

Tüm bu devreden beklenen 500 kazanç, 5 watt güç çekme ve 20 Hz – 1 MHz arası frekans kesim noktalarıdır. Bütün bunları gösteren simülasyon sonuçları aşağıdaki gibidir:

1. Kazanç:

Simülasyon sonuçlarına göre çıkış voltajının giriş voltajına oranı kullanılarak aşağıdaki gibi kazanç bulunur:

Teorik olarak hesaplanmış olan kazanç değeri ile simülasyon sonucu elde edilen değer birbirine yakın olduğundan simülasyon başarılı olarak yapılmıştır. Bunun yanı sıra her bir devre katmanı kullanarak devrenin kazancı hesaplanacak olursa:

Bu kazanca bakılarak tüm devrenin simülasyonu sonucu elde edilen kazanç (520) ile her bir katın kazancının çarpımı ile elde edilmiş olan kazancın (524) hemen hemen eşit olduğu gözlemlenmektedir. Bu durumunda simülasyonun başarılı bir şekilde gerçekleşmiş olduğunun bir kanıtı olduğu ve beklenen sonucun doğru bir şekilde elde edilmiş olduğu söylenebilir. Bunun daha rahat gözlemlenmesi için aşağıdaki Şekil 4.6.2’deki gibi elde edilmiş olan simülasyon sonucuna bakılabilir:

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NQAAkpIAAgAAAAM5NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 4.6.2: Tasarlanmış Olan Tüm Devrenin Kazanç Simülasyonu

1. 5W Güç:
2. 20 Hz – 1 MHz:

Bu kesim frekansları elde edilirlerken bazen teorik olarak verilen kapasitör değerleri simülasyonda uygun olmadıklarından elle rastgele değiştirilerek aşağıdaki gibi genel devrenin frekans cevabı grafiği elde edilmiştir. Daha sonrasında aşağıdaki gibi cursor kullanılarak öncelikle tepe değere bakılmıştır. Y1 ve y2 değişkenleri tepe noktalarını vermektedir. Bunlara karşılık gelen x1 ve x2 değişkenleri ise bu y değerlerine karşılık gelen frekans değerlerini göstermektedir. Grafikteki tepe noktası değerlerinin, cursorların sağa veya sola kaydırılarak, 3 birim azaldıkları yer kesim frekanslarını vermektedir. Yani başta aşağıdaki gibi tepe değer her iki y değişkeni içinde 17k’dır.

![A screenshot of a computer screen

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNwAAkpIAAgAAAAMxNwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 4.6.3: Tasarlanmış Olan Tüm Devrenin Frekans Cevabı İçin Kullanılan Tepe Noktası Değerleri

Daha sonrasında y değerleri 3’er birim düşerek 14k’ya geldikleri x değişkenleri aşağıdaki görselde de olduğu gibi düşük kesim frekansı olarak 20Hz’i yüksek kesim frekansı olarakta 1MHz’i vermiştir. Yani simülasyon sonucu doğru elde edilmiştir.

Proje de +5 bonus puanı olarak istenilen 30 MHz’lik yüksek kesim frekansını elde etmek için fazlasıyla deneme yapıldı. Fakat sonrasında kullanılan transistör ve kapasitörlerin bu kesim frekansına kadar çıkarılabilecek özellikte olmadıkları ve maksimum 6 MHz’lik bir kesim frekansını sağlayabilecekleri anlaşıldı. Bu nedenle devre 1 MHz’de kesilmiş oldu.

Aşağıdaki görselde cursor ile ifade edilmiş olan x1 değişkeni düşük kesim frekansı olan 20 Hz’i x2 değişkeni ise yüksek kesim frekansı olan 1 MHz’i temsil etmektedir.

![A screenshot of a computer screen

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHVzZXIAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwOAAAkpIAAgAAAAMwOAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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eXtjJe2XhDxFcWsY3PPFl40G0NksIMD5SG+hBrpmls28NweJrmRRJrUNvo8/zYKtGwFw/4xRw5P/TY1e1zXLXQPK1LU9MuLnUrPxLqMlosd0sMMLoYNodPLYuowvyhl4GM81nKmk7a9er6W8+qasZKlF66/e/Pz7ppnGWvhW+vtLGp2Xg/xJcWBVnF3CGeIqM5O8QYwMHJz2qCLRGuNMTUoPDOuy2MkohS6R8xNITgIHEOC2eMZzmu30O60ZNR8BC6tL3+12tB9juUvFW3SU3U4jEkXl7mXfjdiQcHp651voniXQPAs+u3WnavdNqFi9vbMkErQWFt5uWkd8bVyynameM7zj5cjpxTe+l+r6X8/wDhtwVGL0u+nV9fn/w+xxBl0gEg2F8COo+2p/8AGqr3T2b7fsUE8OM7vNmEmfTGEXHf1rZ8eRxR+O9VEIVczbpFXoshUGQfg5biueojBLX9WNU4xd1f73/mFbHhuzS/uru1k4ElqwB9DuUg/gcGsetvwtcx2d9dXExwkdqzH3+ZeB7npUYjmVJ8u57OTqnLH01V+G+t+1nf8D1n4NfA/wAP/EHwjfal4hu9Utru11KSz2Wc0aphY4253I3OXPfHSuP+Jfg/w54ekvl8HW2uXVnpuoLp13q2oTxiE3O1y8EcYiVmK7OXzgY6YZGK+H/G+j23hRIry/1jSfEVvqtzd22p6dapceVBPbJDJGA8ybWO0YbkrtG0gnjW+IPxF8Gav8I9G8E+CrDWLaLTL1Zw+orH842S7yWV2+Znl3YAA5OMDArZXtqebU5FNqn8N9L9uhw8/h2407RYNS1Xwrr8FnIqbb2QmKGQsMgqzQ4weo5P41Na+F7q9sZL2y8H+JLi1jG554iXjQbQ2SwgwPlIb6EGuh8RazpFpqi6aNPuFn1LTtMt7+7mvA0QhEVvIdkQjBU/IvJdu+AM8aOua5a6B5Wpanplxc6lZ+JdRktFjulhhhdDBtDp5bF1GF+UMvAxnmtXUku3W2i6W/z8jmVGL7/e+qb7+Rx1r4VvL7Sxqdl4N8S3FgVZxdw5eIqM5O8QYwMHJz2qtFowm02LUYfDOuyWM0ohjuklzE8hOAgfyMFs8Y612+h3WjJqPgIXVpe/2u1oPsdyl4q26Sm6nEYki8vcy78bsSDg9PXL0ew1e18E63eapb3sUMum+XZ6lJPvtYlW4V/s6gcLKXU4G7K8nZzuDdWSb20v0XT+v+HBUYu1m+nV9fn/AF5HGGbRgSDp9+COo+3J/wDGaqXT2ryg2UM0Me3lZpRISfXIVeOnGK2/HkcUfjvVRCFXM26RV6LIVBkH4OW4rnqlzlJa2+5FRpxi7q/3t/qFFFFQaBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAe1f8KJ8Nf9FKg/8ABU3/AMdo/wCFE+Gv+ilQf+Cpv/jtfU+0/wDPSX/v63+NG0/89Jf+/rf40AfLH/CifDX/AEUqD/wVN/8AHadH8DfD0MqSRfEyJJEYMrLpbAqR0IPm19S7T/z0l/7+t/jRtP8Az0l/7+t/jRe2qA+Xbr4JeH7y7mubj4l27SzOZHI0jaCxOTwJMD8Ki/4UT4a/6KVB/wCCpv8A47X1PtP/AD0l/wC/rf40bT/z0l/7+t/jRsB8wWPwX0PTbxLqx+J0MM8edkg0k5XIIyMy8Hng9QeRzVf/AIUT4a/6KVB/4Km/+O19T7T/AM9Jf+/rf40bT/z0l/7+t/jQB8sf8KJ8Nf8ARSoP/BU3/wAdo/4UT4a/6KVB/wCCpv8A47X1PtP/AD0l/wC/rf40bT/z0l/7+t/jQB8sf8KJ8Nf9FKg/8FTf/HaP+FE+Gv8AopUH/gqb/wCO19T7T/z0l/7+t/jRtP8Az0l/7+t/jQB8sf8ACifDX/RSoP8AwVN/8dqe8+C2hahcm4vPidDLMVVS50kgkKoUZxLycAc9T1PNfUG0/wDPSX/v63+NG0/89Jf+/rf40AfLH/CifDX/AEUqD/wVN/8AHakt/gh4etbmK4h+JVuJInDoW0jcAQcjIMmD9DX1HtP/AD0l/wC/rf40bT/z0l/7+t/jRsB8uT/BDw/c3Ek9x8To5ZpXLySPpbFmYnJJPm8kmo/+FE+Gv+ilQf8Agqb/AOO19T7T/wA9Jf8Av63+NG0/89Jf+/rf40AfLH/CifDX/RSoP/BU3/x2j/hRPhr/AKKVB/4Km/8AjtfU+0/89Jf+/rf40bT/AM9Jf+/rf40AfLH/AAonw1/0UqD/AMFTf/HaP+FE+Gv+ilQf+Cpv/jtfU+0/89Jf+/rf40bT/wA9Jf8Av63+NAHyx/wonw1/0UqD/wAFTf8Ax2p7z4LaFqFybi8+J0MsxVVLnSSCQqhRnEvJwBz1PU819QbT/wA9Jf8Av63+NG0/89Jf+/rf40AfLH/CifDX/RSoP/BU3/x2pLf4IeHrW5iuIfiVbiSJw6FtI3AEHIyDJg/Q19R7T/z0l/7+t/jRtP8Az0l/7+t/jRsB8uT/AAQ8P3NxJPcfE6OWaVy8kj6WxZmJyST5vJJqP/hRPhr/AKKVB/4Km/8AjtfU+0/89Jf+/rf40bT/AM9Jf+/rf40AfLH/AAonw1/0UqD/AMFTf/HaP+FE+Gv+ilQf+Cpv/jtfU+0/89Jf+/rf40bT/wA9Jf8Av63+NAHyx/wonw1/0UqD/wAFTf8Ax2j/AIUT4a/6KVB/4Km/+O19T7T/AM9Jf+/rf40bT/z0l/7+t/jQB8sf8KJ8Nf8ARSoP/BU3/wAdo/4UT4a/6KVB/wCCpv8A47X1PtP/AD0l/wC/rf40bT/z0l/7+t/jQB8sf8KJ8Nf9FKg/8FTf/HaP+FE+Gv8AopUH/gqb/wCO19T7T/z0l/7+t/jRtP8Az0l/7+t/jQB8sf8ACifDX/RSoP8AwVN/8do/4UT4a/6KVB/4Km/+O19T7T/z0l/7+t/jRtP/AD0l/wC/rf40AfLH/CifDX/RSoP/AAVN/wDHaP8AhRPhr/opUH/gqb/47X1PtP8Az0l/7+t/jRtP/PSX/v63+NAHyx/wonw1/wBFKg/8FTf/AB2j/hRPhr/opUH/AIKm/wDjtfU+0/8APSX/AL+t/jRtP/PSX/v63+NAHyx/wonw1/0UqD/wVN/8do/4UT4a/wCilQf+Cpv/AI7X1PtP/PSX/v63+NG0/wDPSX/v63+NAHyx/wAKJ8Nf9FKg/wDBU3/x2j/hRPhr/opUH/gqb/47X1PtP/PSX/v63+NG0/8APSX/AL+t/jQB8sf8KJ8Nf9FKg/8ABU3/AMdo/wCFE+Gv+ilQf+Cpv/jtfU+0/wDPSX/v63+NG0/89Jf+/rf40AfLH/CifDX/AEUqD/wVN/8AHaP+FE+Gv+ilQf8Agqb/AOO19T7T/wA9Jf8Av63+NG0/89Jf+/rf40AfLH/CifDX/RSoP/BU3/x2j/hRPhr/AKKVB/4Km/8AjtfU+0/89Jf+/rf40bT/AM9Jf+/rf40AfLH/AAonw1/0UqD/AMFTf/HaP+FE+Gv+ilQf+Cpv/jtfU+0/89Jf+/rf40bT/wA9Jf8Av63+NAHyx/wonw1/0UqD/wAFTf8Ax2j/AIUT4a/6KVB/4Km/+O19T7T/AM9Jf+/rf40bT/z0l/7+t/jQB8sf8KJ8Nf8ARSoP/BU3/wAdo/4UT4a/6KVB/wCCpv8A47X1PtP/AD0l/wC/rf40bT/z0l/7+t/jQB8sf8KJ8Nf9FKg/8FTf/HaP+FE+Gv8AopUH/gqb/wCO19T7T/z0l/7+t/jRtP8Az0l/7+t/jQB8sf8ACifDX/RSoP8AwVN/8do/4UT4a/6KVB/4Km/+O19T7T/z0l/7+t/jRtP/AD0l/wC/rf40AfLH/CifDX/RSoP/AAVN/wDHaP8AhRPhr/opUH/gqb/47X1PtP8Az0l/7+t/jRtP/PSX/v63+NAHyx/wonw1/wBFKg/8FTf/AB2j/hRPhr/opUH/AIKm/wDjtfU+0/8APSX/AL+t/jRtP/PSX/v63+NAHyx/wonw1/0UqD/wVN/8do/4UT4a/wCilQf+Cpv/AI7X1PtP/PSX/v63+NG0/wDPSX/v63+NAHyx/wAKJ8Nf9FKg/wDBU3/x2j/hRPhr/opUH/gqb/47X1PtP/PSX/v63+NG0/8APSX/AL+t/jQB8sf8KJ8Nf9FKg/8ABU3/AMdo/wCFE+Gv+ilQf+Cpv/jtfU+0/wDPSX/v63+NG0/89Jf+/rf40AfLH/CifDX/AEUqD/wVN/8AHaP+FE+Gv+ilQf8Agqb/AOO19T7T/wA9Jf8Av63+NG0/89Jf+/rf40AfLH/CifDX/RSoP/BU3/x2j/hRPhr/AKKVB/4Km/8AjtfU+0/89Jf+/rf40bT/AM9Jf+/rf40AfLH/AAonw1/0UqD/AMFTf/HaP+FE+Gv+ilQf+Cpv/jtfU+0/89Jf+/rf40bT/wA9Jf8Av63+NAHyx/wonw1/0UqD/wAFTf8Ax2j/AIUT4a/6KVB/4Km/+O19T7T/AM9Jf+/rf40bT/z0l/7+t/jQB8sf8KJ8Nf8ARSoP/BU3/wAdo/4UT4a/6KVB/wCCpv8A47X1PtP/AD0l/wC/rf40bT/z0l/7+t/jQB8sf8KJ8Nf9FKg/8FTf/HaP+FE+Gv8AopUH/gqb/wCO19T7T/z0l/7+t/jRtP8Az0l/7+t/jQB8sf8ACifDX/RSoP8AwVN/8do/4UT4a/6KVB/4Km/+O19T7T/z0l/7+t/jRtP/AD0l/wC/rf40AfLH/CifDX/RSoP/AAVN/wDHaP8AhRPhr/opUH/gqb/47X1PtP8Az0l/7+t/jRtP/PSX/v63+NAHyx/wonw1/wBFKg/8FTf/AB2j/hRPhr/opUH/AIKm/wDjtfU+0/8APSX/AL+t/jRtP/PSX/v63+NAHyx/wonw1/0UqD/wVN/8do/4UT4a/wCilQf+Cpv/AI7X1PtP/PSX/v63+NG0/wDPSX/v63+NAHyx/wAKJ8Nf9FKg/wDBU3/x2j/hRPhr/opUH/gqb/47X1PtP/PSX/v63+NG0/8APSX/AL+t/jQB8sf8KJ8Nf9FKg/8ABU3/AMdo/wCFE+Gv+ilQf+Cpv/jtfU+0/wDPSX/v63+NG0/89Jf+/rf40AfLH/CifDX/AEUqD/wVN/8AHaP+FE+Gv+ilQf8Agqb/AOO19T7T/wA9Jf8Av63+NG0/89Jf+/rf40AfLH/CifDX/RSoP/BU3/x2j/hRPhr/AKKVB/4Km/8AjtfU+0/89Jf+/rf40bT/AM9Jf+/rf40AfLH/AAonw1/0UqD/AMFTf/HaP+FE+Gv+ilQf+Cpv/jtfU+0/89Jf+/rf40bT/wA9Jf8Av63+NAHyx/wonw1/0UqD/wAFTf8Ax2j/AIUT4a/6KVB/4Km/+O19T7T/AM9Jf+/rf40bT/z0l/7+t/jQB8sf8KJ8Nf8ARSoP/BU3/wAdo/4UT4a/6KVB/wCCpv8A47X1PtP/AD0l/wC/rf40bT/z0l/7+t/jQB8sf8KJ8Nf9FKg/8FTf/HaP+FE+Gv8AopUH/gqb/wCO19T7T/z0l/7+t/jRtP8Az0l/7+t/jQB8sf8ACifDX/RSoP8AwVN/8do/4UT4a/6KVB/4Km/+O19T7T/z0l/7+t/jRtP/AD0l/wC/rf40AfLH/CifDX/RSoP/AAVN/wDHaP8AhRPhr/opUH/gqb/47X1PtP8Az0l/7+t/jRtP/PSX/v63+NAHyx/wonw1/wBFKg/8FTf/AB2j/hRPhr/opUH/AIKm/wDjtfU+0/8APSX/AL+t/jRtP/PSX/v63+NAHyx/wonw1/0UqD/wVN/8do/4UT4a/wCilQf+Cpv/AI7X1PtP/PSX/v63+NG0/wDPSX/v63+NAHyx/wAKJ8Nf9FKg/wDBU3/x2j/hRPhr/opUH/gqb/47X1PtP/PSX/v63+NG0/8APSX/AL+t/jQB/9k=)

Şekil 4.6.4: Tasarlanmış Olan Tüm Devrenin Frekans Cevabını Gösteren Grafik

Tüm bu hesaplamalar ve tasarım sonucu Rapor 1’deki gibi bir devre başarım tablosu yapmak gerekirse:

Tablo 4.6.1: Devre Başarım Tablosu

|  |  |  |
| --- | --- | --- |
|  | **El Hesabı** | **Simlasyon Programı Sonuçları** |
| **Yüksek Eşik Frekansı** | 1MHz | 1MHz |
| **Düşük Eşik Frekansı** | 20Hz | 20Hz |
| **8 W Yük İle Gerilim Kazancı** | 500 | Yaklaşık 500(520) |
| **Güç Tüketimi** | 5W RMS | 5W RMS |
| **Giriş Direnci** | 47 Ohm | 47 Ohm |
| **Çıkış Direnci** | 8 Ohm | 8.2 Ohm |
| **Maksimum Çıkış Salınımı** | 4 Volt | 3.90Volt |

1. **SONUÇLAR**

Devre tasarımı ve analizleri tamamlandıktan sonrasında her bir devreyle ilgili sonuçlar genel olarak bu devrelerin altında açıklanmıştır. Fakat genel olarak proje yapım sürecindeki sonuçlar şu şekilde de özetlenebilirler:

1. Öncelikle 5 katmanda tasarlanmış olan tüm devreye bakılacak olursa 500 kazanç, 20 Hz – 1MHz aralığında, 8 Ω direnç değeri için 5W RMS güç çıkışı veren bir devre elde edilmiştir.
2. Başta 200 kazançlı ve 2W RMS güç çıkışı veren devre 3 katmanda tasarlanmaya çalışılmıştır. Fakat sonrasında bu durumun hem teorik hem de simülasyon kısmında ciddi zorluklara sebep olduğu anlaşılarak genel devre 5 katmana çıkarılmış ve 2 Common Emitter, 2 Emitter Follower ve 1 Power Amplifier devreleri kullanılmıştır. Sonrasında ise bonus puan olarak verilen aşamalara göre devre gerçeklenmiştir.
3. Bonus puan olarak verilecek olan 30 MHz’e göre hesaplamalar yapılmış ve devre buna göre de tasarlanmıştır. Fakat bu kesim frekansına bir türlü ulaşılamamıştır. Bunun nedeninin ise devre de kullanılmış olan transistör ve kapasitörlerden kaynaklandığı anlaşılmıştır. Çünkü böyle bir devrede kullanılabilecek bu devre elemanları maksimum 6 MHz’lik bir yüksek kesim frekansı verebilmektedirler.
4. Devre teorik hesaplamaları ile simülasyon program sonuçları karşılaştırılmıştır ve bunun sonucunda elde edilmiş olan veriler birbirlerine oldukça yakındırlar. Bu nedenle devrenin hem teorik hem de bilgisayarla analizi doğru yapılmıştır.
5. Bazen teorik olarak doğru gelen değerler simülasyon üzerinde devreyi satürasyona sokmuşlardır. Bu durumda rastgele değerler değiştirilerek devre satürasyondan çıkarılmıştır. Böylece amacına uygun hale getirilmiştir. Sonrasında yeni değerlere göre teorik hesaplamalar tekrarlanmışlardır.
6. Simülasyon programı olarak pek çok program (LTSpice, Pspice ve Eagle) kullanılmıştır, fakat en verimli sonuçlar ve başarılı gözlemlerin Multisim programı ile elde edildiği gözlemlenmiştir.
7. Devre tasarımı ve analizi yapıldıktan sonrasında PCB tasarlama kısmında da yine değişik programlar (Ultiboard14.2, Eagle) denenmiştir. Fakat Altium programının çizim ve ayarlamalar açısından daha rahat kullanıldığı anlaşıldığından PCB tasarımı bu program ile gerçeklenmiştir.
8. Devre tasarımı aşamasında başta, teorik değerler bulmaya çalışılıp sonra simüle etmek planlamıştır. Fakat bu yöntem ile denklemleri çözmenin ciddi bir zaman kaybına neden olduğu bu yüzden de zamanın verimli kullanılamadığı anlaşılmıştır. Buna çözüm olarak öncelikle devreler Multisimde ayrı ayrı çizilmiş. Temel teorik hesaplamaları yapılmış, buna göre simüle edilerek proje amacına uygun tasarlanmıştır. Sonrasında ise piyasa da bulunan ve satılan gerçekçi değerler internetten araştırılarak devre bunlara göre tekrar tasarlanmıştır.
9. Tüm bu aşamalar sonucunda devre başarılı bir şekilde amacına uygun olarak gerçeklenmiştir.
10. **BOM  LİSTESİ**

Devre tasarlandıktan sonra PCB lehimleme kısmına geçilebilmesi için devrenin değerlerinin gerçekte var olan malzeme değerlerine göre baştan ayarlanması ve tasarımının da buna uygun olarak kontrol edilmesi sağlanmıştır. Bu durumda kullanılan malzemeleri gösteren BOM Listesi aşağıdaki görsel olarak gösterilen Excell tablosundaki gibi hazırlanmıştır:

Tablo 6.1: BOM Listesi

**A screenshot of a social media post

Description automatically generated**

1. **KAYNAKÇA**

**[1]** <https://www.desmos.com/calculator/bbodbfnv3v>

**[2]** <https://www.direnc.net/>

**[3]** <http://www.ee.nmt.edu/~anders/courses/ee321f13/hw09.pdf>

**[4]**<https://www.slideshare.net/ahmadFiaz/eeg381-electronics-iii-chapter-2-feedback-amplifiers>