

21차시 강의 회로 이론

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A dynamic splash of blue liquid, resembling water or paint, with droplets and a main horizontal streak, set against a black background.

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First 저항, 축전기의 연결

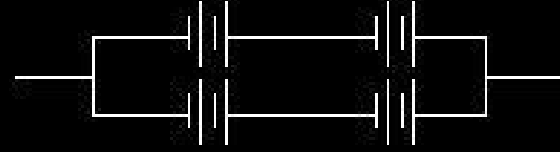
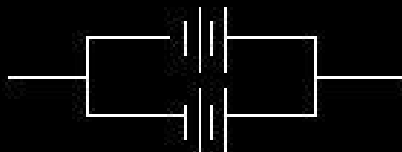
Second 자체 유도? RL회로? LC회로? RLC회로?

Third 키르히호프 법칙과 휘트스톤 브릿지



직렬, 병렬?

뜻?



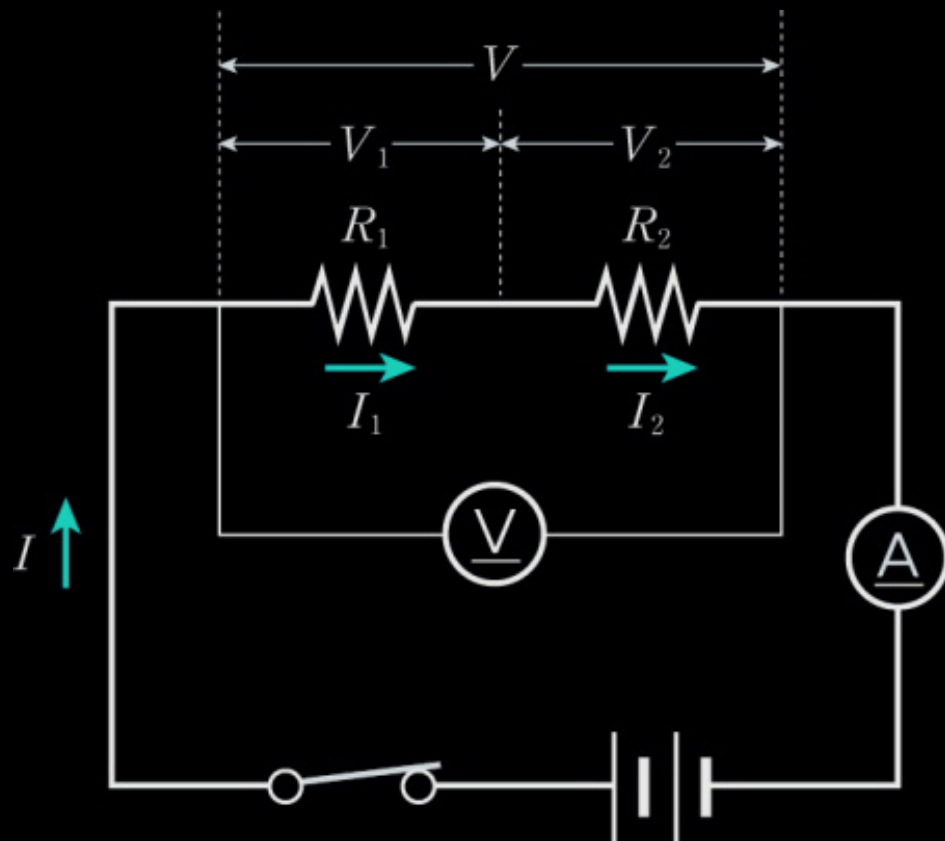
직렬

병렬

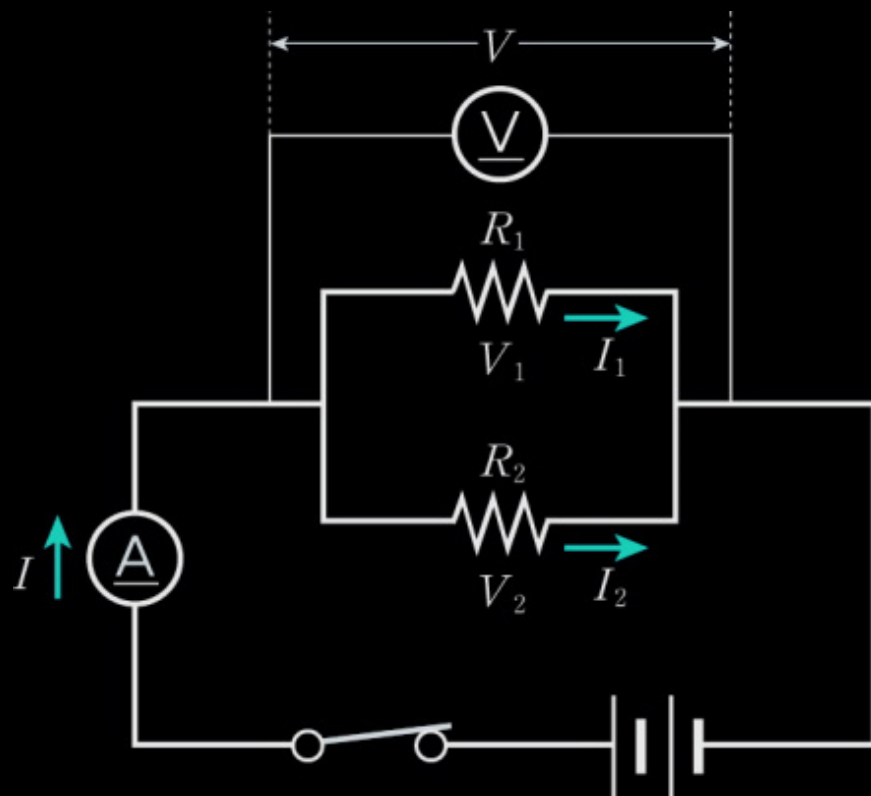
직병렬

저항과 축전기의 연결

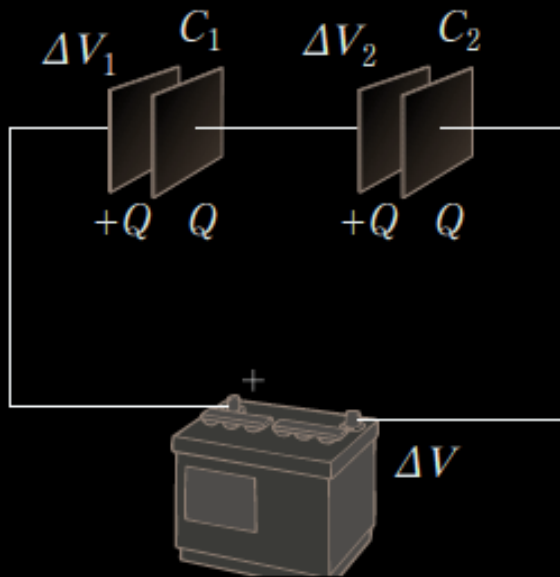
저항의 직렬 연결



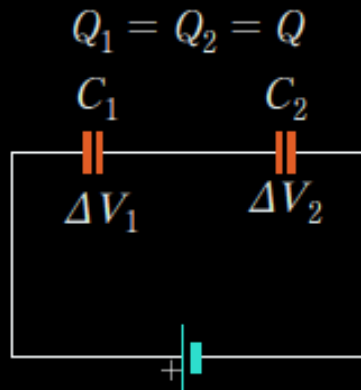
저항의 병렬 연결



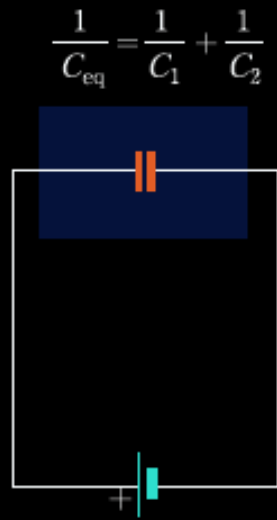
축전기의 직렬 연결



(a)

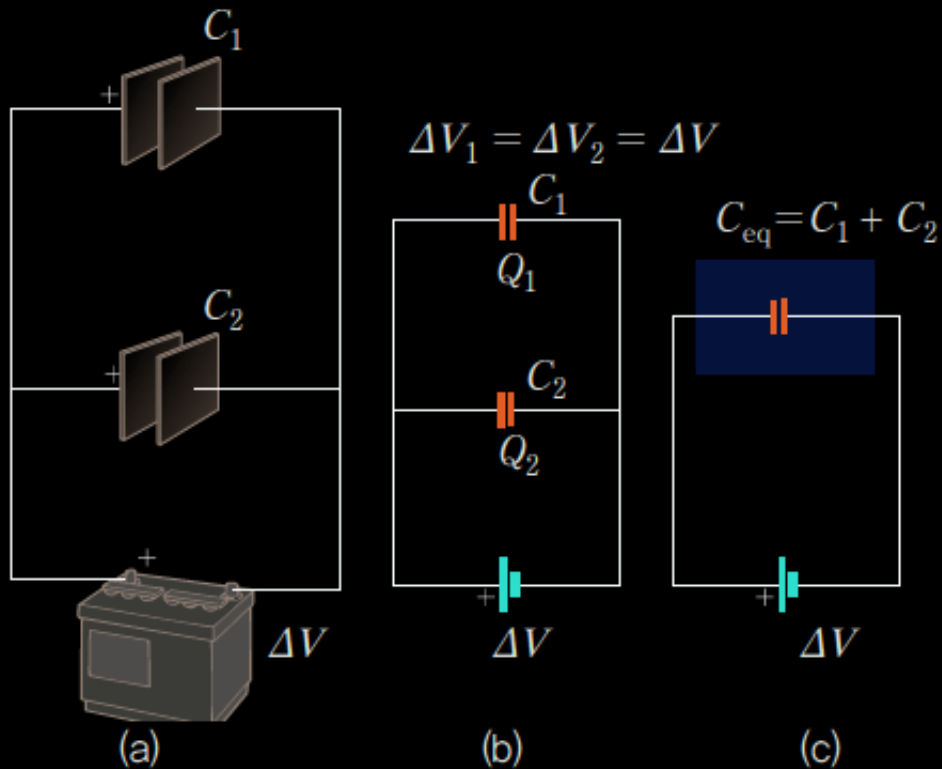


(b)



(c)

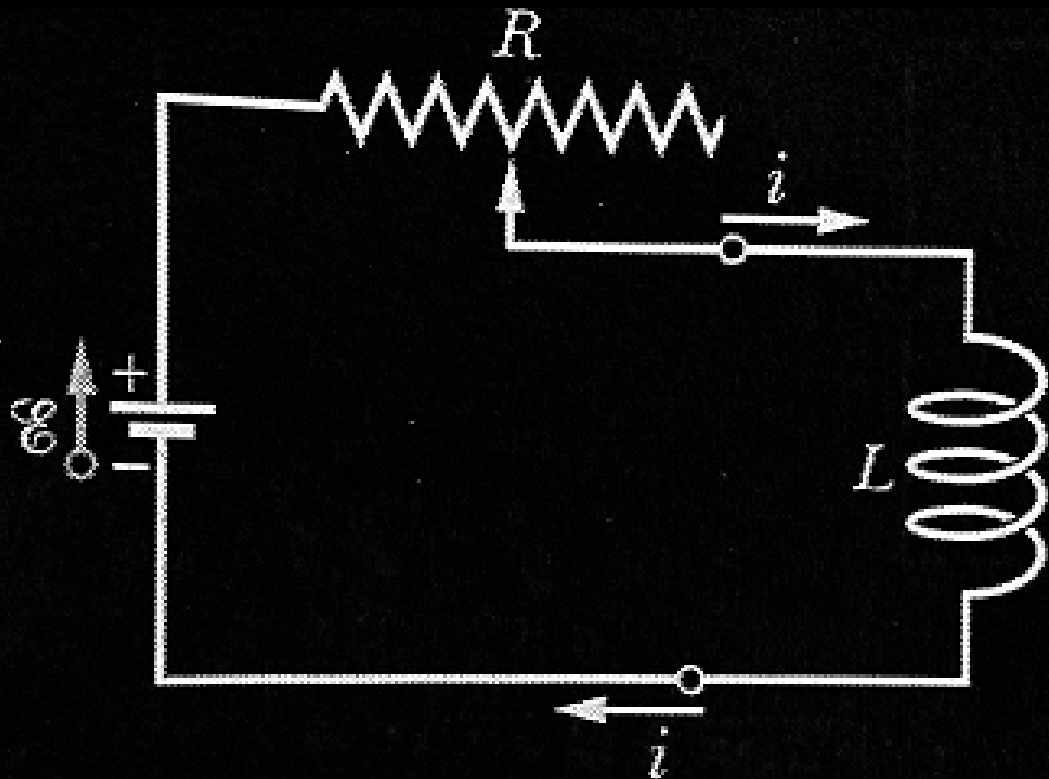
축전기의 병렬 연결



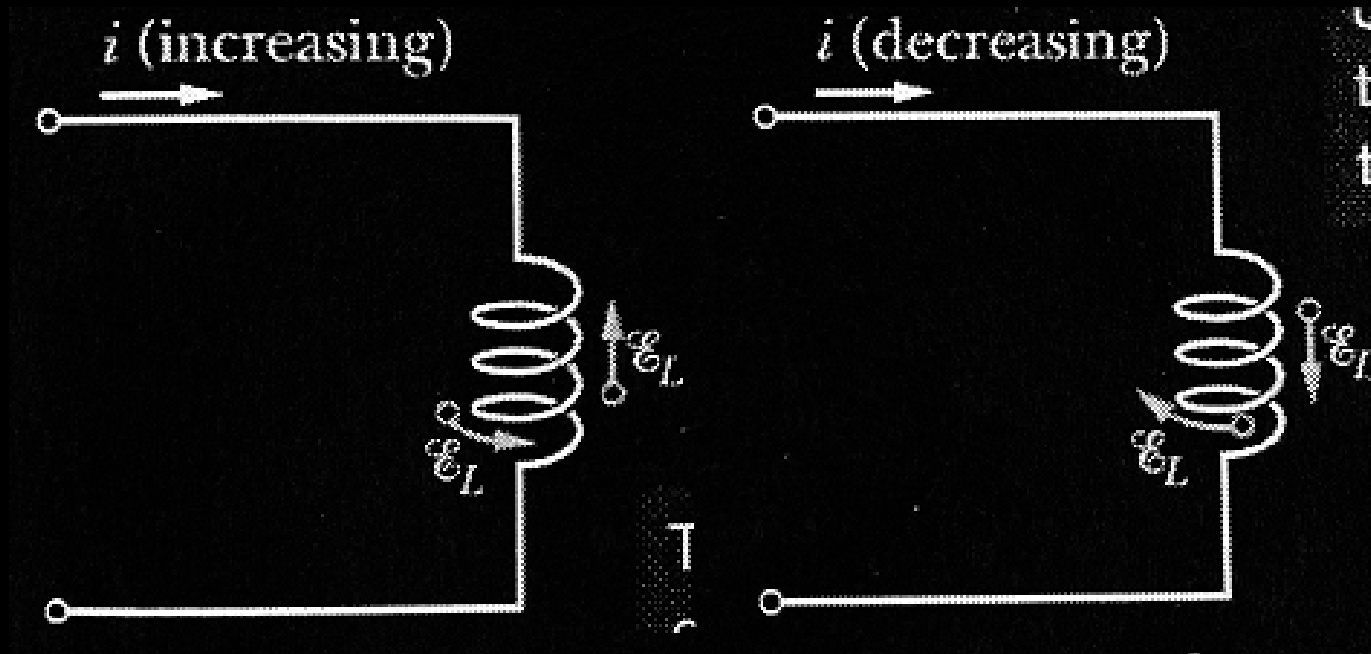


코일?

자체유도의 대표적 예시!

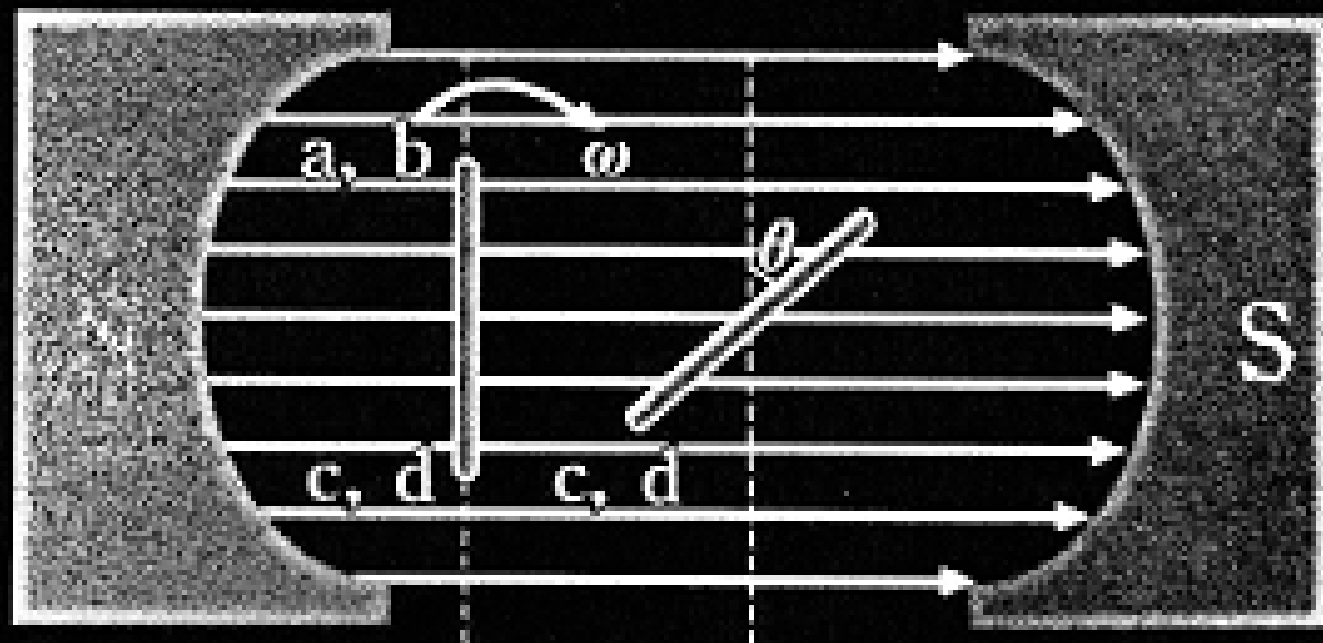


자체유도 기전력의 방향



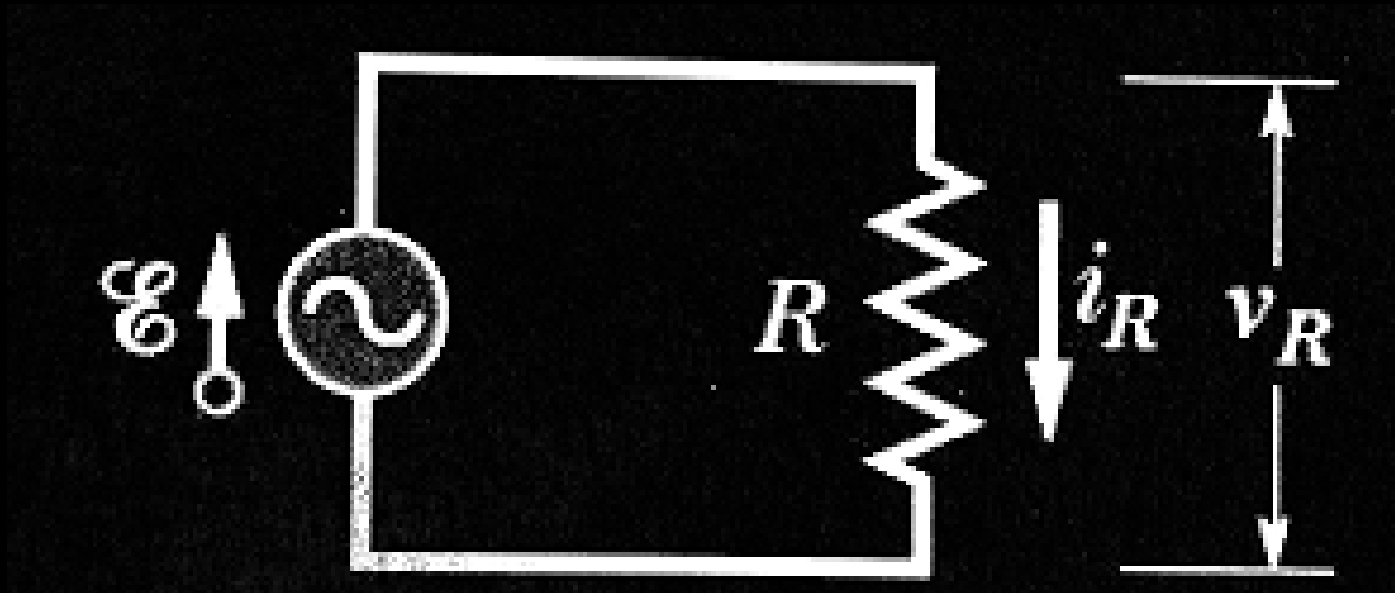


교류 전기?

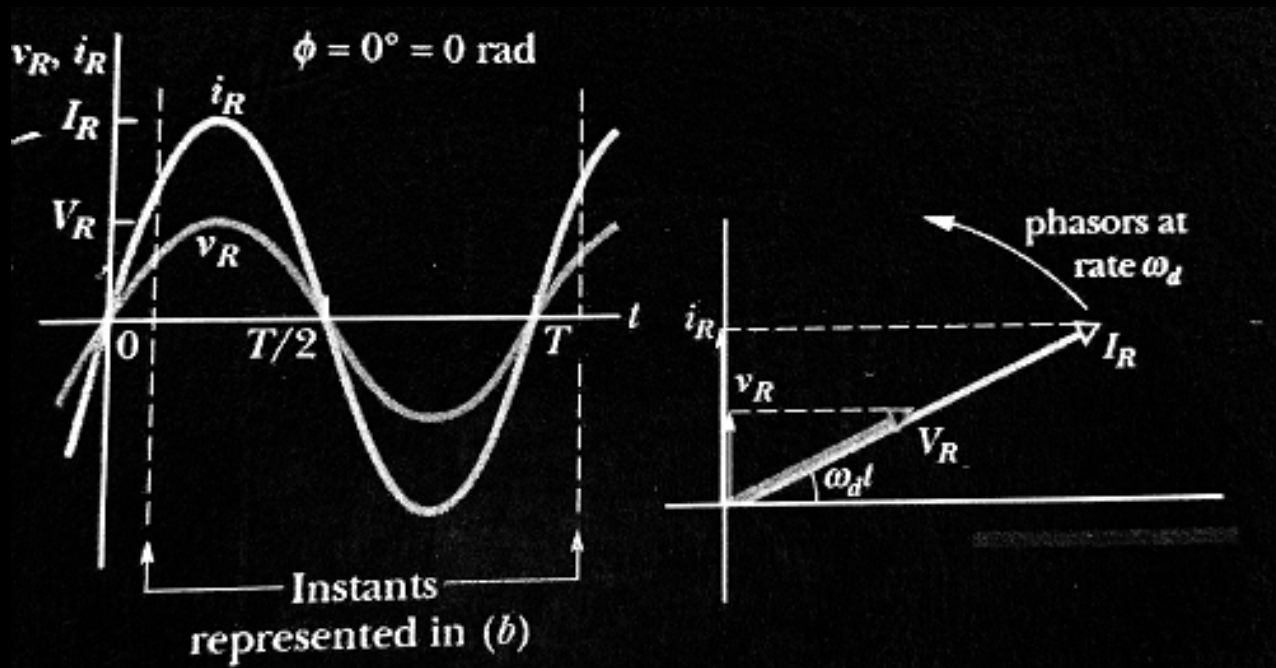


R, L, C 수식적 접근

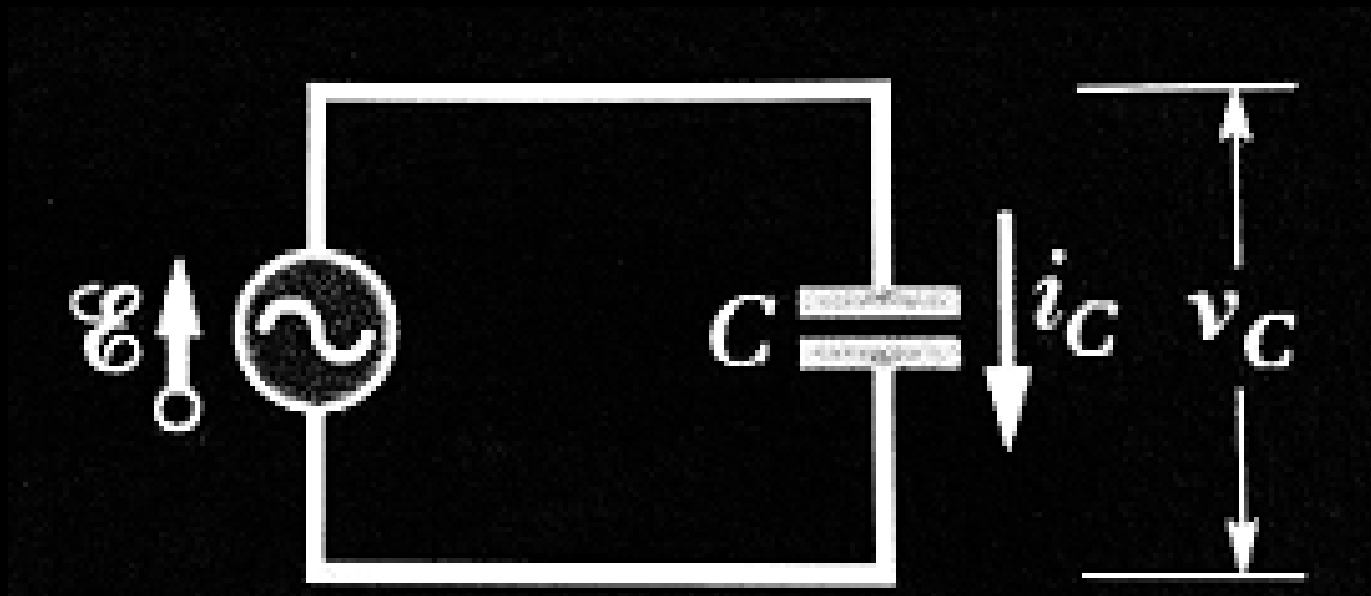
저항(R)의 수식적 표현



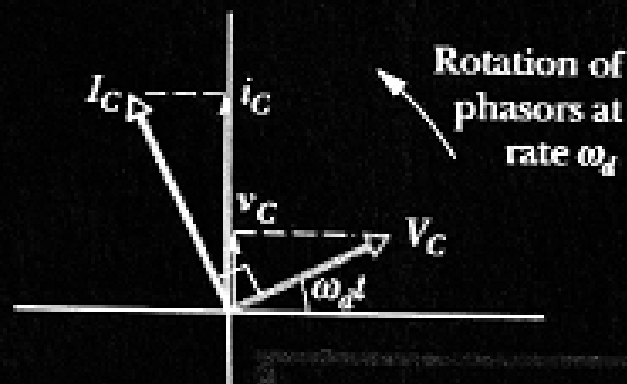
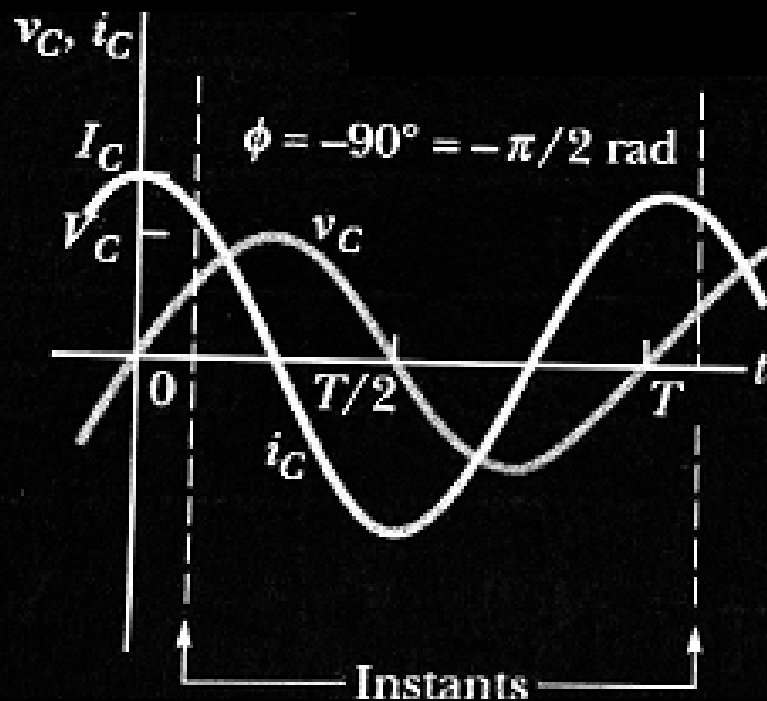
저항(R)의 위상자



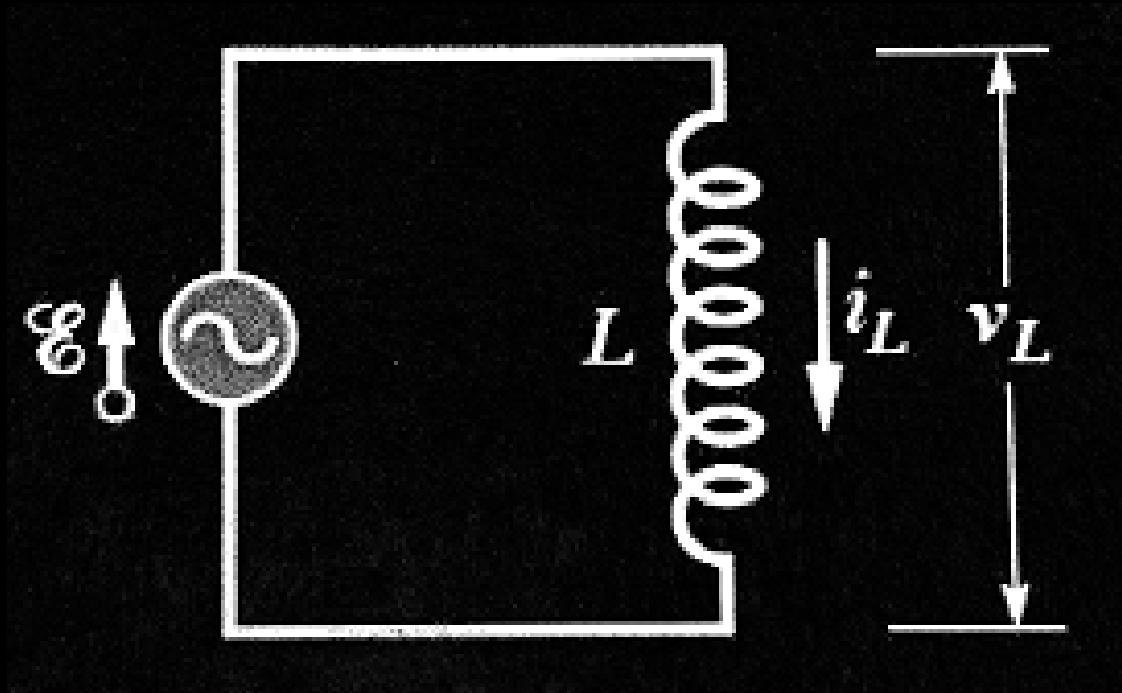
축전기(C)의 수식적 표현



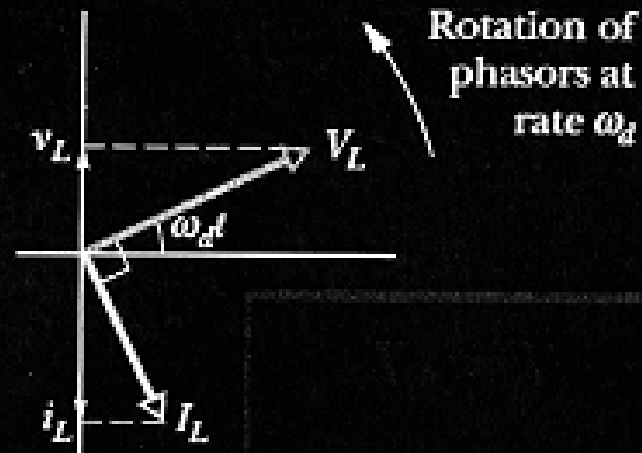
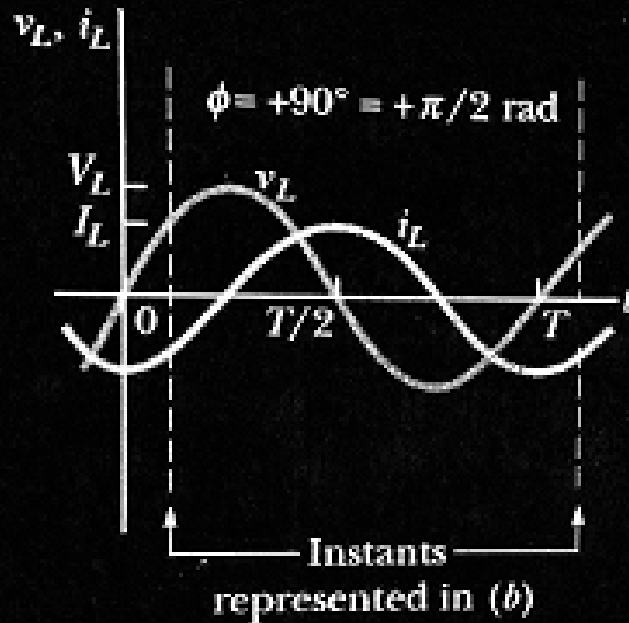
축전기(C)의 위상자



코일(L)의 수식적 표현

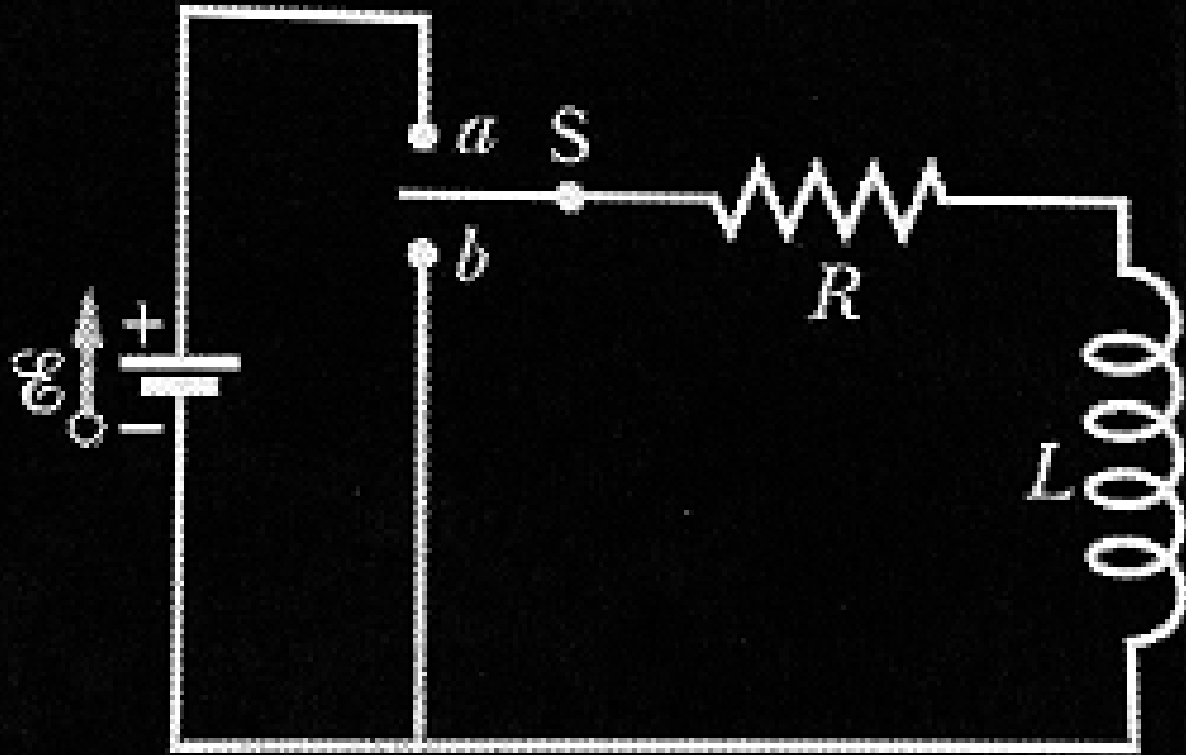


코일(L)의 위상자

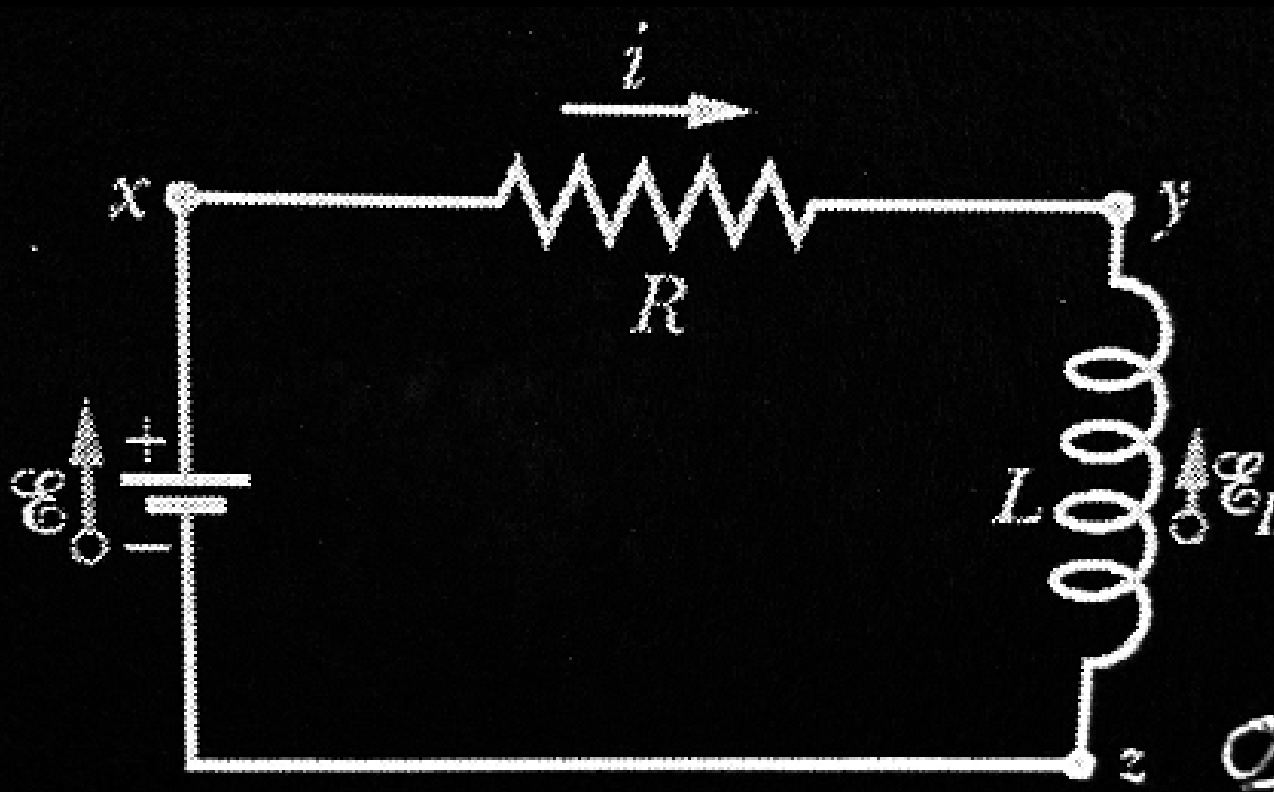


여러 가지 회로

RL 회로



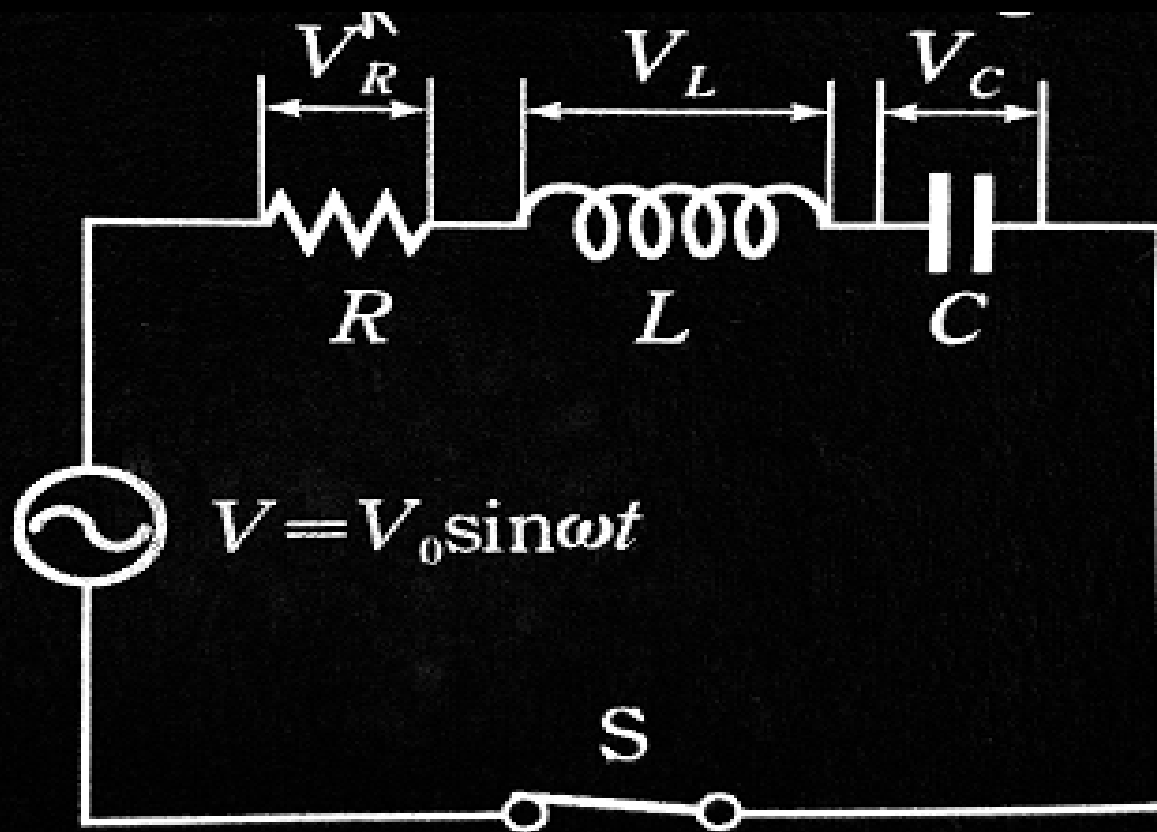
유도기에서의 자기 퍼텐셜에너지



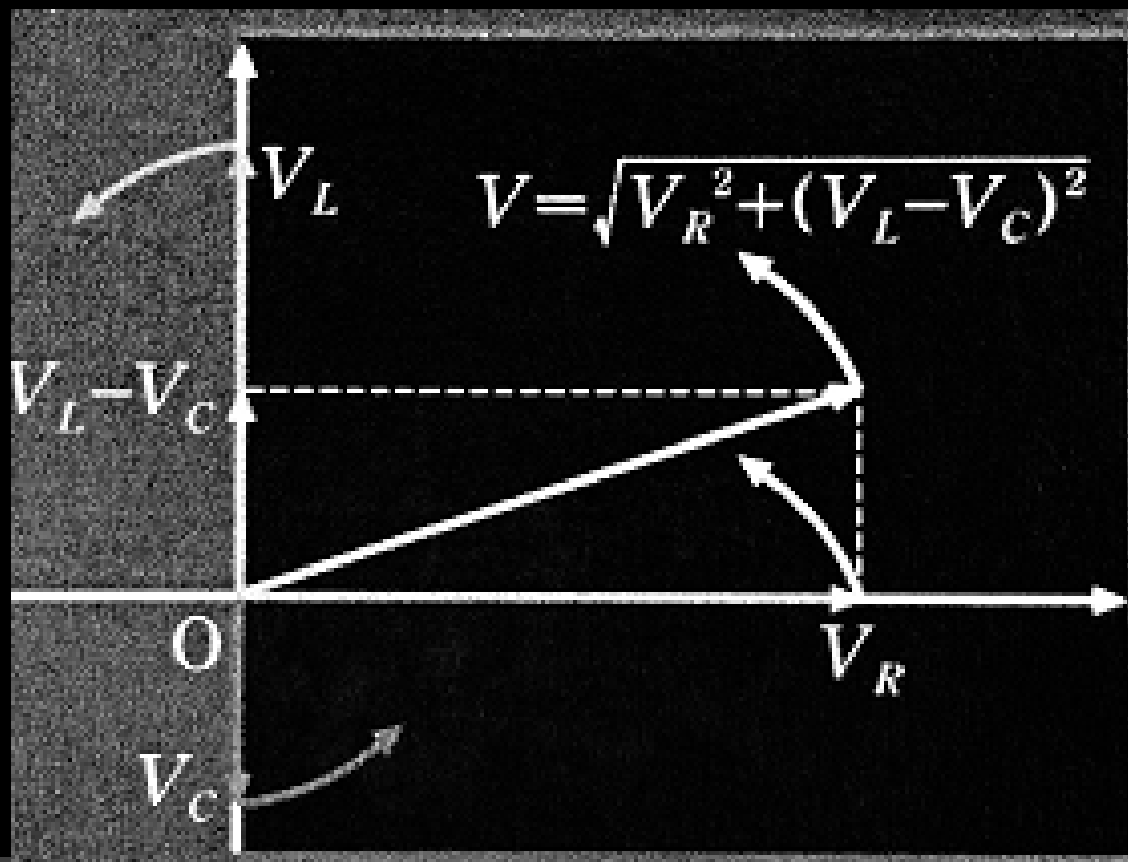


RLC 회로

RLC 회로의 분석

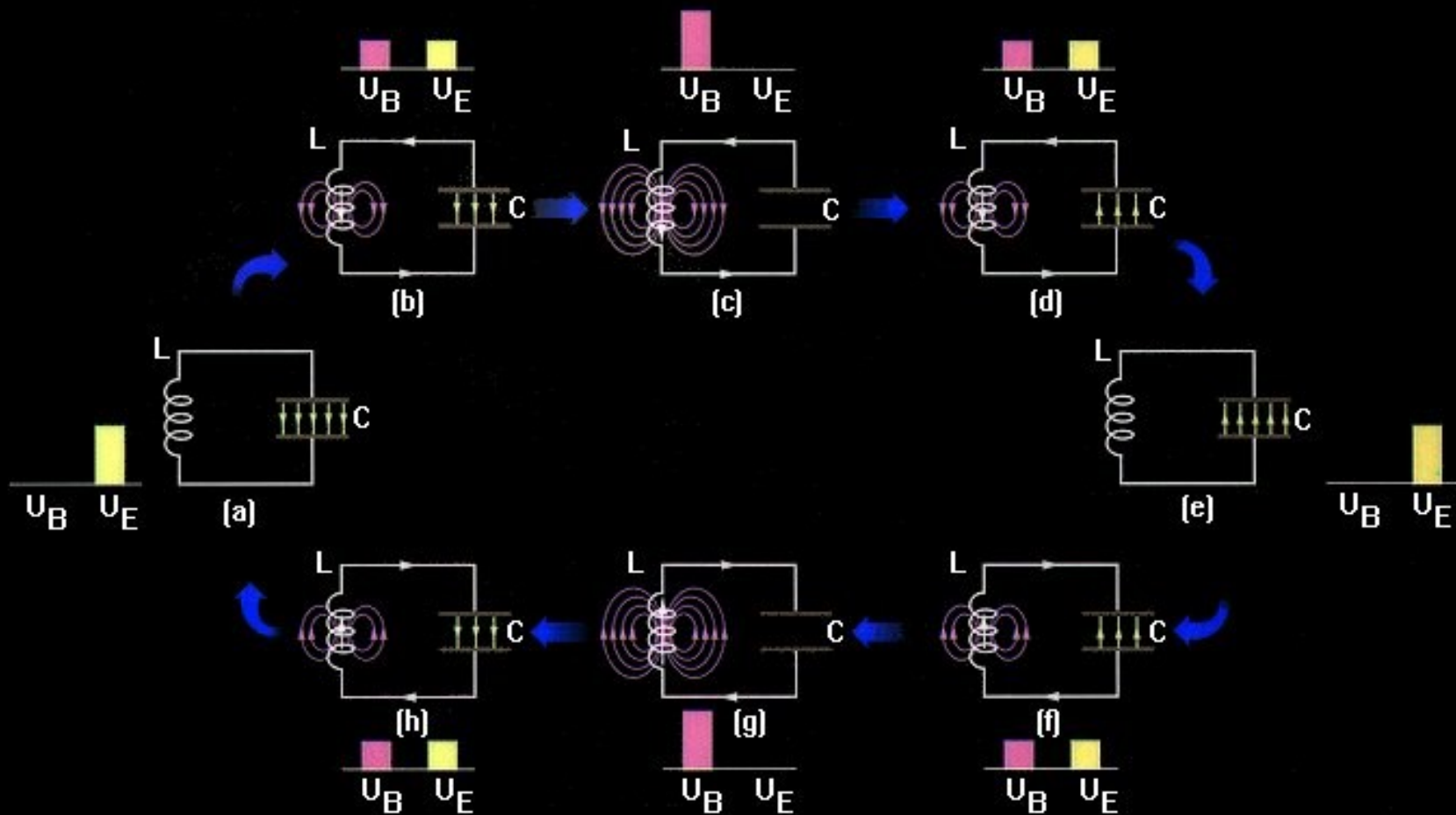


RLC 회로의 분석



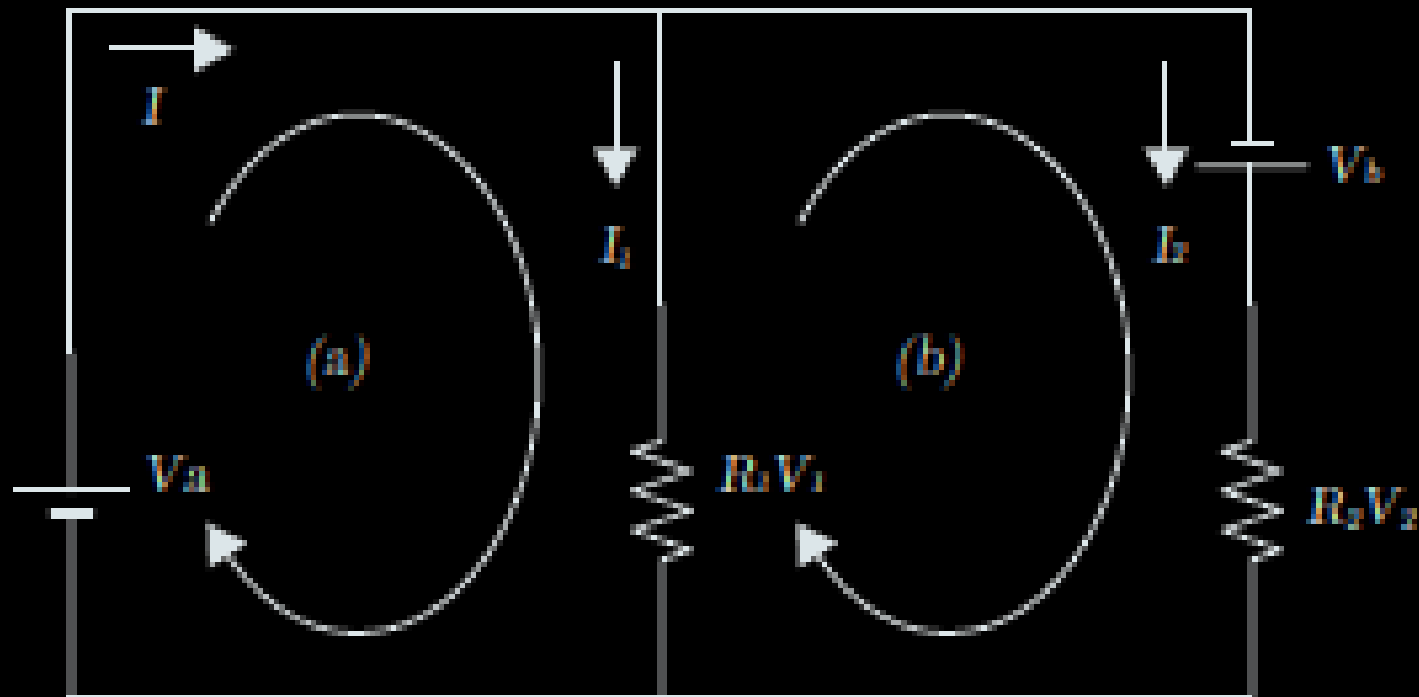
RLC 회로의 감쇠진동

LC 진동

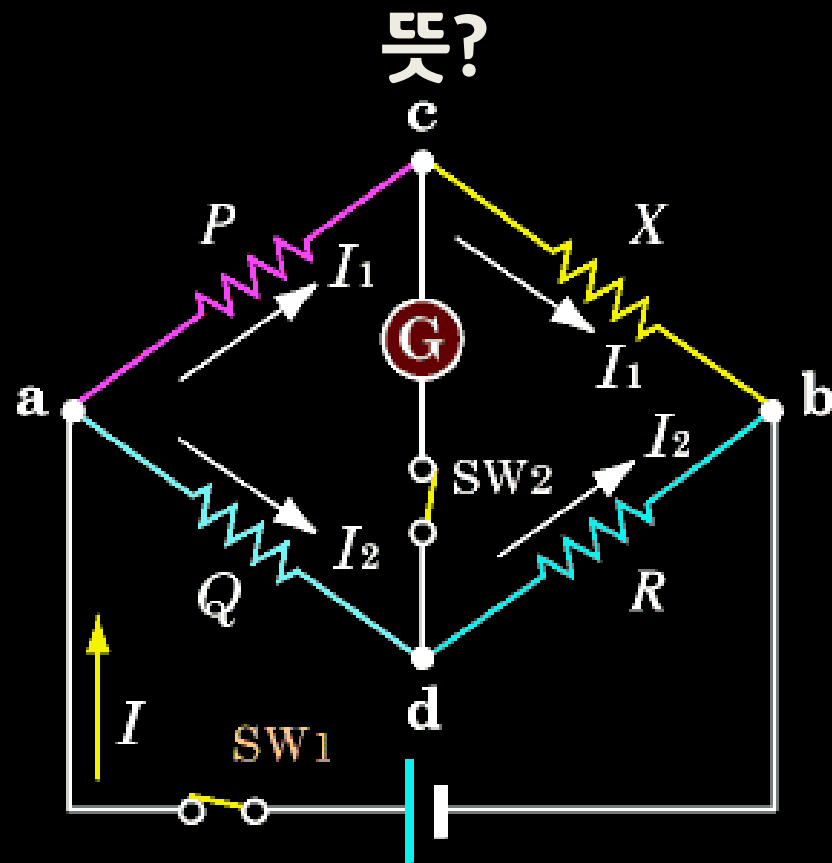


키르히호프 법칙

뜻?



휘트스톤 브릿지



Wheatstone Bridge

22차시 예고

전자기파, 맥스웰 방정식

감사합니다! 😊